

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use **TRIPTODUR** safely and effectively. See full prescribing information for **TRIPTODUR**.

TRIPTODUR (triptorelin) for extended-release injectable suspension, for intramuscular use

Initial U.S. Approval: 2000

RECENT MAJOR CHANGES

Dosage and Administration (2.1, 2.3) 12/2022
Warnings and Precautions (5.4) 04/2022

INDICATIONS AND USAGE

TRIPTODUR is a gonadotropin releasing hormone (GnRH) agonist indicated for the treatment of pediatric patients 2 years and older with central precocious puberty. (1)

DOSAGE AND ADMINISTRATION

- Must only be administered by a healthcare provider. (2.1)
- Administer **TRIPTODUR** as a single intramuscular injection of 22.5 mg once every 24 weeks. (2.1)
- Monitor response with LH levels after a GnRH or GnRH agonist stimulation test, basal LH, or serum concentration of sex steroid levels beginning 1 to 2 months following initiation of therapy, during therapy as necessary to confirm maintenance of efficacy, and with each subsequent dose. (2.2)
- Measure height every 3-6 months and monitor bone age periodically. (2.2)
- See FPI for complete reconstitution and administration instructions. (2.3)
 - Once **TRIPTODUR** is mixed, proceed to the next steps and administer without delay. (2.3)
 - The injection of the suspension should be performed rapidly and in a steady and uninterrupted manner in order to avoid any potential blockage of the needle. (2.3)

DOSAGE FORMS AND STRENGTHS

For extended-release injectable suspension: 22.5 mg of triptorelin as a powder cake for reconstitution with the co-packaged 2 mL of diluent Sterile Water for Injection. (3)

CONTRAINDICATIONS

- Hypersensitivity reactions (4)
- Pregnancy (4, 8.1)

WARNINGS AND PRECAUTIONS

- **Initial Rise of Gonadotropins and Sex Steroid Levels:** An increase in clinical signs and symptoms of puberty may be observed during the first 2-4 weeks of therapy since gonadotropins and sex steroids rise above baseline because of the initial stimulatory effect of the drug. (5.1)
- **Psychiatric events:** Have been reported in patients taking GnRH agonists. Events include emotional lability, such as crying, irritability, impatience, anger, and aggression. Monitor for development or worsening of psychiatric symptoms. (5.2)
- **Convulsions:** Have been observed in patients with or without a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and in patients on concomitant medications that have been associated with convulsions. (5.3)
- **Pseudotumor Cerebri (Idiopathic Intracranial Hypertension):** Have been reported in pediatric patients receiving GnRH agonists, including triptorelin. Monitor patients for headache, papilledema, and blurred vision. (5.4)

ADVERSE REACTIONS

In clinical trials for **TRIPTODUR**, the most common adverse reactions ($\geq 4.5\%$) are injection site reactions, menstrual (vaginal) bleeding, hot flush, headache, cough, and infections (bronchitis, gastroenteritis, influenza, nasopharyngitis, otitis externa, pharyngitis, sinusitis, and upper respiratory tract infection). (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact **Azurity Pharmaceuticals, Inc.** at 1-800-461-7449 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 12/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

TRIPTODUR is indicated for the treatment of pediatric patients 2 years of age and older with central precocious puberty (CPP).

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Information

TRIPTODUR must only be administered by a healthcare provider.

The dosage of **TRIPTODUR** is 22.5 mg reconstituted with accompanying diluent (Sterile Water) 2 mL, and administered as a single intramuscular injection once every 24 weeks.

TRIPTODUR treatment should be discontinued at the appropriate age of onset of puberty at the discretion of the physician.

2.2 Monitoring

Monitor response to **TRIPTODUR** with LH levels after a GnRH or GnRH agonist stimulation test, basal LH, or serum concentration of sex steroid levels beginning 1 to 2 months following initiation of therapy, during therapy as necessary to confirm maintenance of efficacy, and with each subsequent dose.

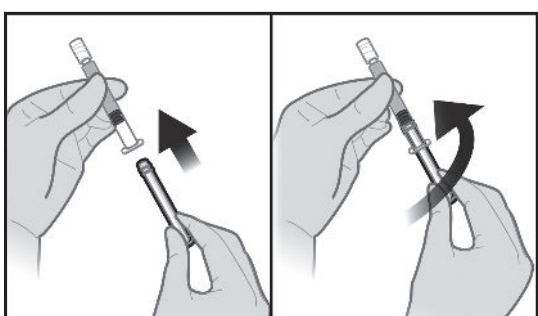
Measure height (for calculation of growth rate) every 3-6 months and monitor bone age periodically.

Noncompliance with drug regimen or inadequate dosing may result in inadequate control of the pubertal process with gonadotropins and/or sex steroids increasing above prepubertal levels. If the dose of **TRIPTODUR** is not adequate switching to an alternative GnRH agonist for the treatment of CPP with the ability for dose adjustment may be necessary.

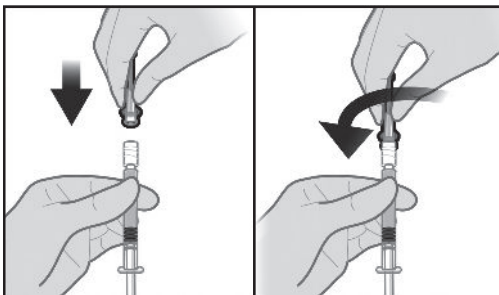
2.3 Reconstitution and Administration Instructions

Read these instructions completely before you begin.

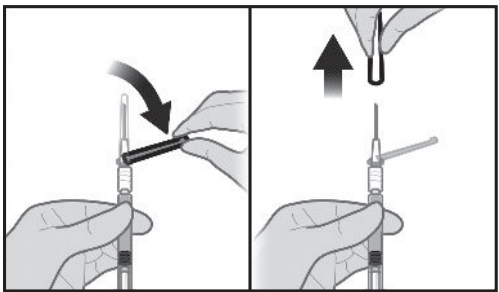
- Triptodur suspension will sediment very quickly and should be injected immediately after reconstitution in accordance with the detailed instructions below.
 - If the sequence of steps to prepare the suspension is interrupted and/or the vial is put aside, the suspension will start to separate into diluent and microgranules.
 - To minimize the risk of needle blockage during the injection, ensure that the preparation of the injection is not interrupted and/or the mixed suspension syringe is not put aside because the suspension will sediment quickly.
1. Use appropriate aseptic technique for preparation and administration.
 2. Screw the plunger rod into the barrel end of the prefilled sterile water diluent syringe.



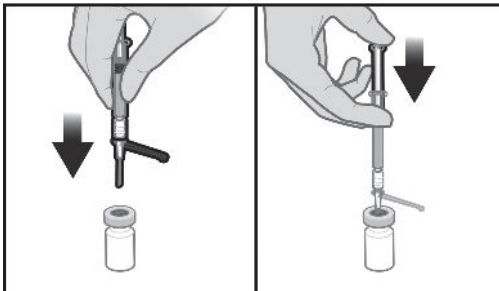
3. To remove the cap, twist counterclockwise to separate from the Luer lock on the syringe barrel.
4. **Firmly attach** one of the 21-gauge sterile safety needles onto the prefilled sterile water diluent syringe with a push and clockwise twist. This 21-gauge needle will only be used for reconstitution of the product.



- a. Remove the plastic Flip-off from the vial. Disinfect the visible part of the stopper.
- b. Pull back on the safety cover towards the syringe and away from the 21-gauge needle. Then pull the clear needle shield off.



5. Insert the 21-gauge needle through the stopper. Inject the Sterile Water diluent into the vial, ensuring the diluent rinses the sides of the vial. Do not release the plunger rod.



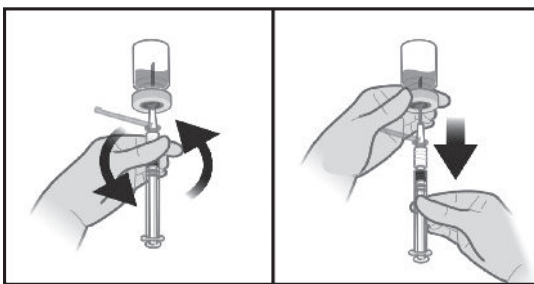
6. If the syringe plunger is not maintained in position, it will naturally withdraw product into the syringe. Thoroughly mix the vial with agitation for 30 to 60 seconds, ensuring the diluent rinses the sides of the vial.



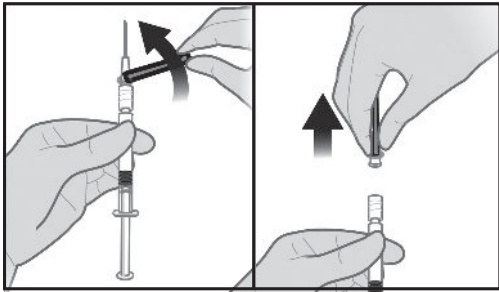
7. Before moving on to the next step, check visually that the suspension appears milky and homogeneous without any visible aggregates or precipitates.
 - a. If the suspension DOES NOT appear milky and homogeneous without any visible aggregates or precipitates, continue with the agitation. An up and down agitation can also be used to help eliminate aggregates or precipitates. The complete and homogeneous (milky) suspension of the product may require up to 60 seconds of agitation.

Important: Once mixed, proceed to the next steps and administer without delay.

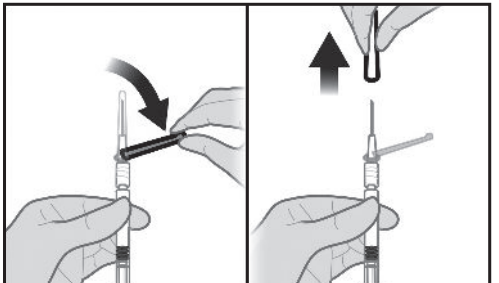
8. The suspension will sediment very quickly so it is imperative to withdraw the suspension into the syringe directly after suspending the product in the vial.
9. Invert the vial and move back the syringe in order to position the end of the 21-gauge needle very near the level of the stopper, making sure the needle lumen is still completely in the vial.
10. Pull back the plunger rod slowly to withdraw the reconstituted product into the syringe, withdrawing as much of the reconstituted product into the syringe as possible. Move the tip of the needle at the level of the stopper so as to be able to withdraw a maximum amount of suspension.



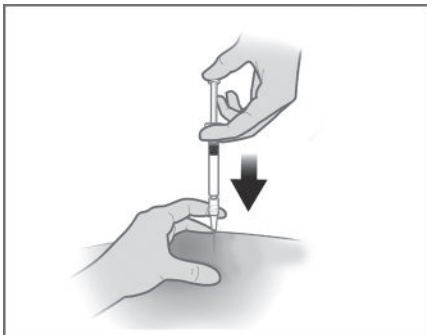
11. Withdraw the needle from the vial and push the safety cover forward toward the needle until you hear and/or feel it lock. Then remove the first 21-gauge needle by grasping the needle hub to disconnect the needle from the syringe and discard it. **This (first) 21-gauge needle will no longer be used.**



12. **Firmly attach the second sterile needle** onto the syringe with a push and clockwise twist and pull back the safety cover towards the syringe. This 21-gauge needle will be used for administration. Triptodur must **only** be administered with a thin-wall 21-gauge needle.



13. Do not prime the needle. Inspect the suspension visually for particulate matter and discoloration.
 - a. If the suspension does not appear milky and homogeneous, continue with an up and down agitation.
 - b. If the suspension appears milky and homogeneous without visible aggregates or precipitates, administer the suspension immediately.
14. Inject the patient intramuscularly, preferably in either buttock or thigh using the entire contents of the syringe. The injection of the suspension should be performed rapidly and in a steady and uninterrupted manner in order to avoid any potential blockage of the needle.



15. After administering the injection, immediately activate the safety cover:
 - a. Center your thumb or forefinger on the textured finger pad area of the safety cover and push it forward over the needle until you hear or feel it lock.
 - b. Use the one-handed technique and activate the mechanism away from yourself and others.
 - c. Immediately discard the syringe assembly into a suitable sharps container.

3 DOSAGE FORMS AND STRENGTHS

For extended-release injectable suspension: 22.5 mg of triptorelin as a lyophilized white to slightly yellow powder cake in a single-dose vial for reconstitution with the co-packaged 2 mL of diluent (Sterile Water) for injection.

4 CONTRAINDICATIONS

- Hypersensitivity: **TRIPTODUR** is contraindicated in individuals with a known hypersensitivity to triptorelin, any other component of the product, or other GnRH agonists or GnRH [see *Adverse Reactions* (6.2)].
- Pregnancy: **TRIPTODUR** may cause fetal harm [see *Use in Specific Populations* (8.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Initial Rise of Gonadotropins and Sex Steroid Levels

During the early phase of initial therapy or after subsequent doses, gonadotropins and sex steroids may rise above baseline because of a transient stimulatory effect of the drug [see *Clinical Pharmacology* (12.2)]. Therefore, a transient increase in clinical signs and symptoms of puberty, including vaginal bleeding, may be observed during the first weeks of therapy or after subsequent doses.

5.2 Psychiatric Events

Psychiatric events have been reported in patients taking GnRH agonists, including triptorelin. Post-marketing reports with this class of drugs include symptoms of emotional lability, such as crying, irritability, impatience, anger, and aggression. Monitor for development or worsening of psychiatric symptoms during treatment with **TRIPTODUR** [see *Adverse Reactions* (6)].

5.3 Convulsions

Post-marketing reports of convulsions have been observed in patients receiving GnRH agonists, including triptorelin. These included patients with a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and patients on concomitant medications that have been associated with convulsions such as bupropion and SSRIs. Convulsions have also been reported in patients in the absence of any of the conditions mentioned above [see *Adverse Reactions* (6)].

5.4 Pseudotumor Cerebri (Idiopathic Intracranial Hypertension)

Pseudotumor cerebri (idiopathic intracranial hypertension) has been reported in pediatric patients receiving GnRH agonists, including triptorelin. Monitor patients for signs and symptoms of pseudotumor cerebri, including headache, papilledema, blurred vision, diplopia, loss of vision, pain behind the eye or pain with eye movement, tinnitus, dizziness, and nausea.

6 ADVERSE REACTIONS

The following serious adverse reactions are described here and elsewhere in the label:

- Initial Rise of Gonadotropins and Sex Steroid Levels [see *Warnings and Precautions* (5.1)]
- Psychiatric Events [see *Warnings and Precautions* (5.2)]
- Convulsions [see *Warnings and Precautions* (5.3)]
- Pseudotumor Cerebri (Idiopathic Intracranial Hypertension) [see *Warnings and Precautions* (5.4)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The safety of **TRIPTODUR** was evaluated in one uncontrolled, open-label single-arm clinical trial in which 44 children with central precocious puberty received two doses of **TRIPTODUR** and were observed for 12 months. The median age of the study population was 8 years (range 2-9 years) at treatment start; 88.6% of subjects were female, 59.1% were White, 27.3% were Black and 4.5% were Asian. Table 1 shows all the adverse reactions that occurred in at least 2 patients ($\geq 4.5\%$) during the open-label single-arm trial.

Table 1: Adverse Reactions¹ Occurring in ≥ 2 Patients Treated with **TRIPTODUR in an Open-Label Single-Arm Trial**

Adverse Reactions	Number of Patients Reporting Event (%) (Total N=44)
Infections & Infestations	
Bronchitis	2 (4.5)
Gastroenteritis	3 (6.8)
Influenza	2 (4.5)
Nasopharyngitis	6 (13.6)
Otitis externa	2 (4.5)
Pharyngitis	2 (4.5)
Sinusitis	2 (4.5)
Upper respiratory tract infection	4 (9.1)
Nervous System Disorders	
Headache	6 (13.6)
Reproductive System & Breast Disorders	
Menstrual (Vaginal bleeding) ²	3 (7.7)
Respiratory, Thoracic & Mediastinal Disorder	
Cough	3 (6.8)
Vascular Disorders	
Hot flush	2 (4.5)

¹Injection site reactions are presented separately

²Includes % of patients with vaginal bleeding or menstrual disorder ("menstrual cycle returned") in 39 females out of N=44.

Other Selected Adverse Reactions:

Injection Site Reactions

Injection site reactions occurring in patients immediately and/or 2 hours after injection include pain (45%), redness (14%), pruritus (2.3%) and swelling (2.3%).

Psychiatric Disorders

Anxiety (2.3%) and mood altered (2.3%)

6.2 Post-marketing Experience

The following adverse reactions have been identified during post-approval use of triptorelin. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Hypersensitivity Reactions: Anaphylactic shock, anaphylactoid reaction, angioedema, urticaria.

Cardiovascular: Hypertension.

Psychiatric: Emotional lability, such as crying, irritability, impatience, anger, and aggression. Depression, including rare reports of suicidal ideation and attempt. Many, but not all, of these patients had a history of psychiatric illness or other comorbidities with an increased risk of depression.

Nervous System: Convulsions, pseudotumor cerebri (idiopathic intracranial hypertension)

Vision Disorders: Visual impairment, visual disturbance

7 DRUG INTERACTIONS

7.1 Drug-Drug Interactions

Results of *in vitro* studies show that drug-drug interactions with triptorelin are unlikely [see *Clinical Pharmacology* (12.3)]. However, in the absence of relevant data and as a precaution, hyperproliferative drugs should not be used concomitantly with triptorelin since hyperprolactinemia reduces the number of pituitary GnRH receptors.

7.2 Drug-Laboratory Test Interactions

Administration of **TRIPTODUR** results in suppression of the pituitary-gonadal system.

The effect of **TRIPTODUR** on pituitary and gonadal function is expected to disappear within six to twelve months after treatment discontinuation. Therefore, diagnostic tests of pituitary gonadotropic and gonadal functions conducted during treatment or after discontinuation of treatment may be affected.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

TRIPTODUR is contraindicated in women who are pregnant [see *Contraindications* (4)] since expected hormonal changes that occur with **TRIPTODUR** treatment increase the risk for pregnancy loss. Available data with triptorelin use in pregnant women are insufficient to determine a drug-associated risk of adverse developmental outcomes. Based on mechanism of action in humans and findings of increased pregnancy loss in animal studies, **TRIPTODUR** may cause fetal harm when administered to pregnant women. Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the US general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%-4% and 15%-20%, respectively.

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Data

Animal Data

In pregnant rats administered triptorelin at doses of 2, 10, and 100 mcg/kg/day during the period of organogenesis, maternal toxicity (decrease in body weight) and embryo-fetal toxicities (pre-implantation loss, increased resorption, and reduced number of viable fetuses) were observed at 100 mcg/kg, approximately 4 times the clinical dose based on body surface area. No embryonic and fetal developmental toxicities were observed in mice at doses up to 4 times the clinical dose. Teratogenic effects were not observed in viable fetuses in rats or mice.

8.2 Lactation

Risk Summary

There are no data on the presence of triptorelin in human milk, or the effects of the drug on the breastfed infant, or on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for TRIPTODUR and any potential adverse effects on the breastfed child from TRIPTODUR or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of TRIPTODUR have been established in pediatric patients 2 years of age and older based on a single-arm open-label study of 44 children 2-9 years of age with CPP [see *Clinical Studies (14)*]. The safety and effectiveness of TRIPTODUR have not been established in pediatric patients less than 2 years old.

8.6 Renal Impairment

TRIPTODUR has not been studied in children with renal impairment. Adult subjects with renal impairment had higher exposure than young healthy adult males [see *Clinical Pharmacology (12.3)*].

8.7 Hepatic Impairment

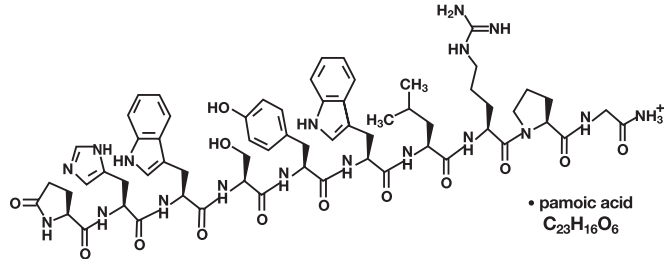
TRIPTODUR has not been studied in children with hepatic impairment. Adult subjects with hepatic impairment had higher exposure than young healthy adult males [see *Clinical Pharmacology (12.3)*].

10 OVERDOSAGE

There is no experience with overdosage in clinical trials of triptorelin. If overdosage occurs, therapy should be discontinued and appropriate supportive and symptomatic treatment administered.

11 DESCRIPTION

TRIPTODUR contains the pamoate salt of triptorelin, a synthetic decapeptide analog of naturally occurring gonadotropin-releasing hormone (GnRH or LHRH). The chemical name of triptorelin pamoate is 5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-D-tryptophyl-L-leucyl-L-arginyl-L-prolylglycine amide (pamoate salt). The molecular weight is 1699.9 and the structural formula is:



TRIPTODUR for extended release injectable suspension for intramuscular use is provided as a sterile, lyophilized, biodegradable microgranule formulation in a single-dose vial, co-packaged with a syringe containing 2 mL Sterile Water for Injection for reconstitution of the lyophilisate. The triptorelin formulation is comprised of 22.5 mg triptorelin (equivalent to 31 mg triptorelin pamoate), poly-D,l-lactide-co-glycolide (183 mg), mannitol (74 mg), carboxymethylcellulose sodium (26 mg), and polysorbate 80 (1.7 mg). When 2 mL Sterile Water for Injection is added to the vial containing TRIPTODUR and mixed, a suspension is formed which is intended as a single intramuscular injection.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Triptorelin is a GnRH agonist.

12.2 Pharmacodynamics

Following the first administration, there is a transient surge in circulating levels of LH, FSH, testosterone, and estradiol [see *Warnings and Precautions (5.2)*]. After chronic and continuous administration, by 4 weeks after initiation of therapy, a sustained decrease in LH and FSH secretion and marked reduction in sex steroids are observed.

12.3 Pharmacokinetics

Absorption

After an initial intramuscular TRIPTODUR 22.5 mg injection and a second 22.5 mg intramuscular injection 24 weeks later in children 2 to 9 years old with CPP, triptorelin peaked 4 hours postdose with a geometric mean C_{max} of 39.9 and 36.5 ng/mL, respectively. No apparent accumulation of triptorelin occurred after the second injection. Absorption occurred in two phases, a burst phase followed by a maintenance release phase. In children with CPP, following the burst phase after the first 22.5 mg injection, geometric mean serum triptorelin levels were 0.11, 0.17, 0.05 and 0.03 ng/mL at Months 1, 2, 3, and 6, respectively.

Distribution

There is no evidence that triptorelin, at clinically relevant concentrations, binds to plasma proteins.

Elimination

Metabolism

The metabolism of triptorelin in humans is unknown, but is unlikely to involve hepatic microsomal enzymes (cytochrome P450). Thus far no metabolites of triptorelin have been identified. Pharmacokinetic data suggest that C-terminal fragments produced by tissue degradation are either completely degraded in the tissues, or rapidly degraded in plasma, or cleared by the kidneys.

Excretion

Triptorelin is eliminated by both the liver and the kidneys. Following intravenous administration of 0.5 mg triptorelin peptide to six healthy male volunteers with a creatinine clearance of 149.9 mL/min, 41.7% of the dose was excreted in urine as intact peptide with a total triptorelin clearance of 211.9 mL/min. This percentage increased to 62.3% in patients with liver disease who have a lower creatinine clearance (89.9 mL/min). It has also been observed that the nonrenal clearance of triptorelin (patient anuric, $Cl_{renal} = 0$) was 76.2 mL/min, thus indicating that the nonrenal elimination of triptorelin is mainly dependent on the liver.

Specific Populations

Renal Impairment

After intravenous bolus injection of 0.5 mg triptorelin in adults, the two distribution half-lives were unaffected by renal impairment. However, renal insufficiency led to a decrease in total triptorelin clearance proportional to the decrease in creatinine clearance as well as increases in volume of distribution and consequently, an increase in the elimination half-life. Adult male subjects with moderate or severe renal impairment had approximately 2-fold higher exposure (AUC values) than young healthy adult males (see Table 1) [see *Use in Specific Populations (8.6)*].

Hepatic Impairment

After intravenous bolus injection of 0.5 mg triptorelin in adults, the two distribution half-lives were unaffected by hepatic impairment. In adult males with hepatic insufficiency, triptorelin clearance was reduced and exposure (AUC) was increased 3.7-fold compared to young healthy adult males (Table 2) [see *Use in Specific Populations (8.7)*].

Table 2: Pharmacokinetic Parameters (Mean ± SD) in Healthy Adults, Adults with Renal Impairment, and Adults with Hepatic Impairment Following an I.V. Bolus of 0.5 mg Triptorelin in Solution

Group	C_{max} (ng/mL)	AUC _{inf} (h·ng/mL)	Cl_b (mL/min)	Cl_{renal} (mL/min)	$t_{1/2}$ (h)	Cl_{renal} (mL/min)
6 healthy male volunteers	48.2 ±11.8	36.1 ±5.8	211.9 ±31.6	90.6 ±35.3	2.81 ±1.21	149.9 ±7.3
6 males with moderate renal impairment	45.6 ±20.5	69.9 ±24.6	120.0 ±45.0	23.3 ±17.6	6.56 ±1.25	39.7 ±22.5
6 males with severe renal impairment	46.5 ±14.0	88.0 ±18.4	88.6 ±19.7	4.3 ±2.9	7.65 ±1.25	8.9 ±6.0
6 males with liver disease	54.1 ±5.3	131.9 ±18.1	57.8 ±8.0	35.9 ±5.0	7.58 ±1.17	89.9 ±15.1

Drug-Drug Interactions

In Vitro Assessment of Drug Interactions

Drug Metabolizing Enzyme Inhibition

Triptorelin did not inhibit CYP1A2, 2B6, 2C8, 2C9, 2C19 or 2D6, or CYP 3A4/5 at clinically relevant concentrations.

Drug Metabolizing Enzyme Induction

In fresh human hepatocytes from three human donors, triptorelin did not induce CYP1A2 or CYP3A4/5 activity.

Transporters

Triptorelin was a poor P-gp substrate and had no inhibitory effect toward P-gp.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis was evaluated in an 18-month study in mice and a 24-month study in rats. In rats, triptorelin doses of 120, 600, and 3000 mcg/kg given every 28 days (approximately 0.2, 0.8, and 4 times the estimated human monthly dose based on body surface area) resulted in increased mortality with a drug treatment period of 13 to 19 months. The incidences of benign and malignant pituitary tumors and histiocarcinomas were increased in a dose-related manner. There were no treatment-related tumors in mice at exposure up to 4-fold higher than the estimated human monthly dose based on body surface area.

Mutagenicity studies performed with triptorelin using bacterial and mammalian systems (*in vitro* Ames test and chromosomal aberration test in CHO cells and an *in vivo* mouse micronucleus test) provided no evidence of mutagenic potential.

After 60 days of subcutaneous treatment followed by a minimum of four estrus cycles prior to mating, triptorelin at doses of 2, 20, and 200 mcg/kg (approximately 0.07, 0.7, and 7 times the estimated human daily dose based on body surface area) or two monthly injections as slow release microspheres (~20 mcg/kg/day) had no effect on the fertility or general reproductive function of female rats.

No studies were conducted to assess the effect of triptorelin on male fertility.

14 CLINICAL STUDIES

In a single-arm open-label study, 44 children 2 to 9 years of age with CPP, 39 females and 5 males, all naive to previous GnRH agonist treatment, were administered TRIPTODUR 22.5 mg at a dosing interval of 24 weeks. Subjects were evaluated over two dosing intervals for a total of 12 months.

TRIPTODUR 22.5 mg suppressed pituitary release of LH and FSH and, consequently, gonadal secretion of estradiol in girls and testosterone in boys (Table 3). At all timepoints evaluated, ≥93% of children achieved LH suppression to prepubertal levels (i.e., serum LH ≤5 IU/L 30 minutes after GnRH agonist stimulation), ≥79% of girls achieved prepubertal levels of estradiol (i.e., <20 pg/mL), and ≥80% of boys achieved prepubertal levels of testosterone (i.e., <30 ng/dL). TRIPTODUR arrested or reversed progression of clinical signs of puberty with 95% of children showing no increase in the bone age/chronological age ratio, and 89% showing stabilization of sexual maturation at Month 12.

Table 3: Efficacy of TRIPTODUR 22.5 mg Administered Every 6 Months to Children with CPP^a

Endpoint	% (n/N) of Children Achieving Endpoint					
	Month 1	Month 2	Month 3	Month 6	Month 9	Month 12
% with prepubertal LH (GnRH-stim LH ≤5 IU/L)	95% (42/44)	95% (42/44)	95% (42/44)	93% ^b (41/44)	95% (42/44)	98% (43/44)
% girls with prepubertal estradiol (<20 pg/mL)	87% (34/39)	89% (34/38)	92% (36/39)	79% (31/39)	82% (32/39)	79% (31/39)
% boys with prepubertal testosterone (<30 ng/dL)	80% (4/5)	80% (4/5)	100% (5/5)	100% (5/5)	80% (4/5)	80% (4/5)
% with no increase in BA/CA ^c ratio vs. baseline				64% (28/44)		95% (42/44)
% achieving stabilization of sexual maturation				91% (40/44)		89% (39/44)
% girls with regression of uterine length				69% (27/39)		77% (30/39)
% boys with no progression in testis volumes				100% (5/5)		100% (5/5)

a- Intent-to-Treat population

b- Primary efficacy endpoint

c- Bone Age/Chronological Age

Following the second TRIPTODUR injection, 22 children (all girls) were assessed for evidence of an acute-on-chronic phenomenon (i.e., increase in basal LH >5 IU/L or serum estradiol level >20 pg/mL 48 hours after the second triptorelin injection). Of these, one girl who achieved prepubertal hormone levels prior to the second injection showed biochemical evidence of acute-on-chronic phenomenon [see *Warnings and Precautions (5.2)* and *Adverse Reactions (6.1)*].

16 HOW SUPPLIED/STORAGE AND HANDLING

Each TRIPTODUR 22.5 mg single-use kit (NDC 24338-150-20) contains:

- One single-dose vial of TRIPTODUR 22.5 mg (NDC 24338-150-01) with a Flip-Off seal containing sterile lyophilized white to slightly yellow powder cake
- One sterile, glass syringe with Luer Lock prefilled with 2 mL of Sterile Water for Injection (NDC 24338-150-02)
- Two sterile 21 gauge, 1½" needles (*thin-wall*) with safety cover
- One Package Insert

Store at 20 to 25°C (68 to 77°F) excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Do not freeze.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Medication Guide).

Hypersensitivity Reactions

Inform caregivers that anaphylactic shock, hypersensitivity, and angioedema have been reported with triptorelin use and to immediately seek medical attention if any hypersensitivity reaction occurs.

Symptoms after Initial TRIPTODUR Administration

Inform caregivers that during the first weeks after the first TRIPTODUR injection, signs of puberty may occur such as vaginal bleeding [see *Warnings and Precautions (5.1)* and *Adverse Reactions (6.1)*]. Caregivers should notify the physician if these symptoms continue beyond the second month after TRIPTODUR administration.

Psychiatric Events

Inform caregivers that symptoms of emotional lability, such as crying, irritability, impatience, anger, and aggression have been observed in patients receiving GnRH agonists, including triptorelin. Alert caregivers to the possibility of development or worsening of psychiatric symptoms, including depression, during treatment with TRIPTODUR [see *Warnings and Precautions (5.2)* and *Adverse Reactions (6.2)*].

Convulsions

Inform caregivers that reports of convulsions have been observed in patients receiving GnRH agonists, including triptorelin. Patients with a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and patients on concomitant medications that have been associated with convulsions may be at increased risk [see *Warnings and Precautions (5.3)*].

Pseudotumor Cerebri (Idiopathic Intracranial Hypertension)

Inform patients and caregivers that reports of pseudotumor cerebri (idiopathic intracranial hypertension) have been observed in pediatric patients receiving GnRH agonists, including triptorelin. Monitor patients for signs and symptoms of pseudotumor cerebri, including headache, and vision issues such as blurred vision, double vision, loss of vision, pain behind the eye or pain with eye movement, ringing in the ears, dizziness, and nausea. Advise patients and caregivers to contact their healthcare provider if the patient develops any of these symptoms. [see *Warnings and Precautions (5.4)*].

Pregnancy is Contraindicated

TRIPTODUR is contraindicated in pregnancy. If the patient becomes pregnant while taking the drug, the patient should be informed of the potential risk to fetus [see *Use in Specific Populations (8.1)*].

Compliance with the Dosing Schedule

Inform caregivers about the importance of adherence to the TRIPTODUR dosing schedule of one injection every 24 weeks. Patients should not miss or delay a scheduled dose.



Manufactured for:
Azurity Pharmaceuticals, Inc.
Woburn, MA 01801

Manufactured by:
Debiopharm Research & Manufacturing SA
CH-1920 Martigny, Switzerland

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TRIP-PI-07

MEDICATION GUIDE TRIPTODUR® [TRIP-toe-der] (triptorelin) for extended-release injectable suspension, for intramuscular use
What is the most important information I should know about TRIPTODUR? <ul style="list-style-type: none">In the first few weeks after your child receives their first TRIPTODUR injection or after additional injections, TRIPTODUR can cause a brief increase in some hormones. During this time you may notice more signs of puberty in your child, including vaginal bleeding. Call your child's doctor if signs of puberty continue after 2 months of receiving TRIPTODUR.Some people taking gonadotropin releasing hormone (GnRH) agonists like TRIPTODUR have had new or worsened mental (psychiatric) problems. Mental (psychiatric) problems may include emotional symptoms such as:<ul style="list-style-type: none">cryingirritabilityrestlessness (impatience)angeracting aggressive Call your child's doctor right away if your child has any new or worsening emotional symptoms while taking TRIPTODUR. <ul style="list-style-type: none">Some people taking GnRH agonists like TRIPTODUR have had seizures. The risk of seizures may be higher in people who:<ul style="list-style-type: none">have a history of seizureshave a history of epilepsyhave a history of brain or brain vessel (cerebrovascular) problems or tumorsare taking a medicine that has been connected with seizures such as bupropion or selective serotonin reuptake inhibitors (SSRIs) Seizures have also happened in people who have not had any of these problems.
Call your child's doctor right away if your child has a seizure while taking TRIPTODUR. <p>Increased pressure in the fluid around the brain can happen in children taking GnRH agonists medicines including TRIPTODUR.</p> <ul style="list-style-type: none">Call your child's doctor right away if your child has any of the following symptoms during treatment with TRIPTODUR:<ul style="list-style-type: none">headacheeye problems, including blurred vision, double vision and decreased eyesighteye painringing in the earsdizzinessnausea
What is TRIPTODUR? <ul style="list-style-type: none">TRIPTODUR is an injectable prescription GnRH medicine used for the treatment of children with central precocious puberty (CPP).It is not known if TRIPTODUR is safe and effective in children under 2 years of age.
TRIPTODUR should not be taken if your child is: <ul style="list-style-type: none">allergic to gonadotropin releasing hormone (GnRH), GnRH agonist medicines, or any ingredients in TRIPTODUR. See the end of this Medication Guide for a complete list of ingredients in TRIPTODUR.Some people taking triptorelin, the active ingredient in TRIPTODUR, have had serious allergic reactions. Call your child's doctor or get emergency medical help right away if your child gets any of the following symptoms of a serious allergic reaction:<ul style="list-style-type: none">skin rashes, redness, or swellingtrouble breathing or swallowingthroat tightness, hoarsenesssevere itchingfast heart beatswelling of face, mouth, and tonguehivessweatingdizziness or faintingpregnant or becomes pregnant. TRIPTODUR can cause birth defects or loss of the baby. If your child becomes pregnant call your doctor.
Before your child receives TRIPTODUR, tell your child's doctor about all of your child's medical conditions, including if they: <ul style="list-style-type: none">have a history of mental (psychiatric) problems.have a history of seizures.have a history of epilepsy.have a history of brain or brain vessel (cerebrovascular) problems or tumors.are breastfeeding or plan to breastfeed. It is not known if TRIPTODUR passes into breastmilk. Tell the doctor about all the medicines your child takes, including prescription and over-the-counter medicines, vitamins, and herbal supplements.
How will your child receive TRIPTODUR? <ul style="list-style-type: none">Your child's doctor should do tests to make sure your child has CPP before treating them with TRIPTODUR.TRIPTODUR must only be given by a healthcare professional.TRIPTODUR is given as a single intramuscular (in the muscle) injection 1 time every 24 weeks.Keep all scheduled visits to the doctor. Do not delay a scheduled dose. The doctor will do regular exams and blood tests to check for signs of puberty.
What are the possible side effects of TRIPTODUR? <p>TRIPTODUR may cause serious side effects. See "What is the most important information I should know about TRIPTODUR?"</p> The most common side effects of TRIPTODUR include injection site reactions, menstrual (vaginal) bleeding, hot flush, headache, cough, and infections (bronchitis, gastroenteritis, influenza, nasopharyngitis, otitis externa, pharyngitis, sinusitis, and upper respiratory tract infection). <p>These are not all the possible side effects of TRIPTODUR. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.</p>
What are the ingredients in TRIPTODUR? <p>Active ingredient: triptorelin</p> <p>Inactive ingredients: carboxymethylcellulose sodium, mannitol, poly-D,l-lactide-co-glycolide, and polysorbate 80</p> <p>Manufactured for: Azurity Pharmaceuticals, Inc. Woburn, MA 01801</p> <p>Manufactured by: Debiopharm Research & Manufacturing SA, CH-1920 Martigny, Switzerland</p> <p>For more information about TRIPTODUR, please contact Azurity Pharmaceuticals, Inc. at 1-800-461-7449.</p>

This Medication Guide has been approved by the U.S. Food and Drug Administration

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