



## **(20 µg/ml salmon gonadotropin releasing hormone analog + 10 mg/ml domperidone)**

Injectable Solution

Spawning aid for intraperitoneal or intramuscular injection

**FOR USE IN FINFISH BROODSTOCK ONLY**

**LEGAL STATUS --** In order to be legally marketed, a new animal drug intended for a minor species must be Approved, Conditionally Approved, or Indexed by the Food and Drug Administration.

**THIS PRODUCT IS INDEXED – MIF 900-001. Extra-label use is prohibited.**

**THIS PRODUCT IS NOT TO BE USED IN ANIMALS INTENDED FOR USE AS FOOD FOR HUMANS OR FOOD PRODUCING ANIMALS.**

**It is a violation of federal law to use this product in a manner other than as directed in the labeling.**

**DESCRIPTION:** Ovaprim® is a liquid peptide preparation that contains an analog of salmon gonadotropin releasing hormone (sGnRHa) and a brain neurotransmitter (dopamine) inhibitor. The sGnRHa in Ovaprim® elicits the release of stored gonadotropins from the pituitary. The dopamine inhibitor (domperidone) serves to remove other inhibition of GnRH release. Release of stored pituitary gonadotropins may aid spawning by stimulating ovulation and spermiation in sexually mature fish.

**INDICATION:** For use as a spawning aid in finfish broodstock.

### **USER SAFETY WARNINGS:**

**Not for use in humans. Keep out of the reach of children.**

**May damage fertility. Pregnant women should exercise caution because exposure may damage the unborn child.**

Use in a well-ventilated area. Wear gloves, goggles, and suitable protective clothing.

Care should be taken to avoid accidental contact or self-injection. In the event of accidental self-injection, seek medical advice immediately.

**INHALATION:** May be harmful. If breathing becomes difficult, move to fresh air, and contact a physician.

**INGESTION:** May be harmful. If the person is conscious, wash out mouth with copious amounts of water. Contact a physician.

**EYE CONTACT:** May be harmful. In case of contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Contact a physician.

**SKIN CONTACT:** May be harmful. In case of contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before re-using. Contact a physician.

**OTHER HEALTH INFORMATION:** The toxicological properties of sGnRHa have not been thoroughly investigated. The actions are similar to luteinizing hormone releasing hormone (LHRH, Gonadotropin releasing hormone, GnRH) in humans. LHRH is the key mediator in the liberation of the pituitary gonadotropins, luteinizing hormone (LH) and follicle stimulating hormone (FSH). LHRH may modify reproductive ability by influencing plasma gonadotropin levels and concomitantly gonadal steroid levels.

To obtain a product Safety Data Sheet, call Syndel at (888) 384-7431

**DIRECTIONS FOR USE:** Ovaprim® is packaged ready for use in liquid form. Precise amounts for individual injections should be withdrawn directly from the bottle into a syringe. Due to the viscosity of the product, use of syringes with Luer Lock tips or permanently attached needles is strongly recommended. Use of syringes with slip tips is not recommended since needles could inadvertently eject under pressure. Use of a needle guard to limit the penetration of the needle into the fish may be helpful. For small fish, use of a tuberculin or similar syringe is also recommended for accurate dosing and to minimize trauma at the injection site.

**CLEANLINESS:** Syringes and needles should be sterile prior to use.

**LOADING:** Withdraw only enough solution from the bottle of Ovaprim® as will be required for the weight of the fish. With the needle pointed upward and directed away from your face, squeeze the syringe gently to expel any trapped air.

**INJECTION:** Hold the fish firmly and insert the needle into the abdominal cavity/belly between the pelvic fin and the vent or into the muscle on either side of the dorsal fin. For intra-abdominal injection in smaller species, it may be helpful to secure the fish on a soft wet surface such as a sponge, and to place the fish on its side and inject into the rear abdominal cavity to avoid contact with internal organs. Inject Ovaprim® carefully. After injection, gently place the fish into a container of clean aerated water.

Intramuscular injections may result in bleeding at the injection site. Swelling, ulceration, whiteness, redness, or hypopigmentation may also be observed at the injection site.

**SEDATION FOR HANDLING AND RECOVERY:** If necessary, sedate finfish broodstock prior to Ovaprim® injection.

**DOSE:** A general dose of Ovaprim® is 0.5 ml per kilogram of bodyweight. This dose may vary among finfish species and physiological state of individual animals. Environment and temperature also play a significant role in the reproductive process and may affect dose and timing.

For most species, only a single dose of Ovaprim® is required; but treatment of fish with a single dose of Ovaprim® is only effective in fish that are within or near their natural spawning season.

For some species, a split dose may be needed. For split dosing, a loading dose of 10% of the total dose should be injected, followed by injection of the remaining 90% of the total dose at least 6 hours later.

In warm water species, ovulation may occur in as little as 4 hours post treatment, so fish should be monitored accordingly.

Signs of ovulation/spermiation may include a noticeable swelling and “softening” of the abdomen; presence of eggs in the water; the ability to easily express eggs from the female and milt from males; and when sexes are held together in the same tank, onset of spawning behavior (e.g., males “chasing” females).

However, it is important to note that the interval between treatment and the onset of ovulation is variable between species and temperature, and treated fish should be disturbed as little as possible to reduce stress during final maturation. Males may respond in shorter periods of time than females of the same species.

**DOSE CALCULATION:** The dose is calculated based on the weight of the fish.

Examples:	<u>FISH WEIGHT</u>	X	<u>OVAPRIM® DOSAGE</u>	=	<u>AMOUNT OF INJECTION</u>
	1) 0.2 kg 2) 50 gm		0.5 ml/kg 0.5 µl/gm		0.1 ml 25 µl

**HOW SUPPLIED:** Glass vial

**NET CONTENTS:** 10 ml

**STORAGE and HANDLING:** Store below 25°C and protect from sunlight and sources of heat.

**DISPOSAL:** Contact your State Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance pertaining to disposal of unused product.

**QUESTIONS/COMMENTS?** Contact Syndel USA at (888) 812-7431 or [www.Syndel.com](http://www.Syndel.com).  
To report side effects, contact Syndel at (800) 283-5292.

For additional information about reporting side effects for animal drugs, contact FDA at 1-888-FDA-VETS or <http://www.fda.gov/reportanimalae>.

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