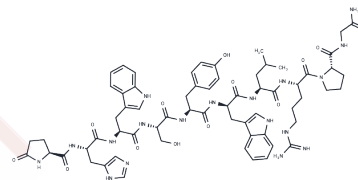


## Triptorelin

## Chemical Properties

CAS No. :	57773-63-4
Formula:	C <sub>64</sub> H <sub>82</sub> N <sub>18</sub> O <sub>13</sub>
Molecular Weight:	1311.45
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Triptorelin ([DTrp <sup>6</sup> ]-LH-RH) is an analog of gonadotropin-releasing hormone (GnRH) and a high-affinity GnRH receptor agonist that stimulates the secretion of luteinizing hormone (LH) and follicle-stimulating hormone (FSH).
Targets(IC <sub>50</sub> )	GNRH Receptor
In vivo	(1) Triptorelin can improve the pregnancy rate by 12% to 15% in ewes and downregulate ovarian GnRH-R expression of female rats, especially in late-growing follicles. (2) Triptorelin immunity blocked EET and UWT, inhibited uterine growth and development and enhance the expression levels of ESR1, LHR, and FSHR proteins.

## Solubility Information

Solubility	DMF: 5 mg/mL (3.81 mM), Sonication is recommended. PBS (pH 7.2): 1.5 mg/mL (1.14 mM), Sonication is recommended. DMSO: 1.5 mg/mL (1.14 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7625 mL	3.8126 mL	7.6251 mL
5 mM	0.1525 mL	0.7625 mL	1.525 mL
10 mM	0.0763 mL	0.3813 mL	0.7625 mL
50 mM	0.0153 mL	0.0763 mL	0.1525 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Weiss JM, et al. Regulation of GnRH I receptor gene expression by the GnRH agonist triptorelin, estradiol, and progesterone in the gonadotroph-derived cell line alphaT3-1. *Endocrine*. 2006;30(1):139-144.

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