

**Synonyms** : AY 25650

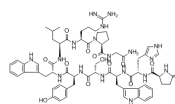
Cat No. : M21742

CAS Number : 57773-63-4

Molecular Formula : C64H82N18O13

Formula Weight : 1311.45

**Chemical Name :** Glp-His-Trp-Ser-Tyr-D-Trp-Leu- Arg-Pro-Gly-NH2



**Description** : Triptorelin is a synthetic gonadotropin-releasing hormone (GnRH) peptide agonist that binds to the GnRH receptor (GnRHR;  $K_i = 0.3$  nM in CHO cells expressing the human receptor). It inhibits the growth of DU145, LNCaP, and prostate and OV/CAR-3 ovarian cancer cells ( $IC_{50}$ s = 62.1, 73.4, 98.1, and 67.7  $\mu$ M, respectively). Triptorelin also inhibits the growth of the triple-negative breast cancer (TNBC) cell lines HCC1806 and MDA-MB-231 ( $EC_{50}$ s = 58.1, 31.59  $\mu$ M, respectively). It stimulates follicle stimulating hormone (FSH) and luteinizing hormone (LH) release from primary rat pituitary cells when used at a concentration of 50 nM. It also decreases tumor volume of Dunning R3 prostate tumor flank implants and reduces prostate and testis weight in rats when administered at a dose of 1 mg/kg per day. Formulations containing triptorelin have been used in the palliative treatment of advanced prostate cancer.

**Pathway** : Others

**Target** : Other Targets

Receptor : —

**Solubility** : —

[illegible]

**Storage** : (-20°C)

**Stability** :  $\geq 2$  years

**Reference :**