



LKT Laboratories, Inc.

Triptorelin Acetate

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Product Information

Product ID T7037

CAS No. 140194-24-7

Chemical Name

Synonym

Formula $C_{64}H_{82}N_{18}O_{13} \cdot C_2H_4O_2$

Formula Wt. 1371.52

Melting Point

Purity $\geq 95\%$

Solubility Soluble in DMSO, methanol.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Triptorelin is an analog of gonadotropin-releasing hormone I (GnRH-I); it is a decapeptide that activates the GnRH receptor in the pituitary gland, decreasing secretion of luteinizing hormone (LH) and follicle-stimulating hormone (FSH). Triptorelin inhibits production of cAMP in a Ca^{2+} - and PKC-dependent manner. Triptorelin exhibits anxiolytic and potentially anticancer activities. In vitro, triptorelin's modulation of autocrine regulatory signaling may induce cell cycle arrest.

pGlu-His-Trp-Ser-Tyr-D-Trp-Leu-Arg-Pro-Gly-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T7037	10 mg	\$164.90
T7037	25 mg	\$320.30
T7037	100 mg	\$960.80

References Saleh-Abady MM, Alizadeh A, Shamsipour F, et al. The anticancer activity compared between triptorelin and a new gonadotropin releasing hormone analogue. *Avicenna J Med Biotechnol.* 2009 Jul;1(2):105-10. PMID: 23407883.

Larivière S, Garrel-Lazayres G, Simon V, et al. Gonadotropin-releasing hormone inhibits pituitary adenylyl cyclase-activating polypeptide coupling to 3',5'-cyclic adenosine-5'-monophosphate pathway in LbetaT2 gonadotrope cells through novel protein kinase C isoforms and phosphorylation of pituitary adenylyl cyclase-activating polypeptide type I receptor. *Endocrinology.* 2008 Dec;149(12):6389-98. PMID: 18755795.

Umathe SN, Bhutada PS, Jain NS, et al. Effects of central administration of gonadotropin-releasing hormone agonists and antagonist on elevated plus-maze and social interaction behavior in rats. *Behav Pharmacol.* 2008 Jul;19(4):308-16. PMID: 18622178.

Kim JW, Lee YS, Kim BK, et al. Cell cycle arrest in endometrial carcinoma cells exposed to gonadotropin-releasing hormone analog. *Gynecol Oncol.* 1999 Jun;73(3):368-71. PMID: 10366462.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.