



LKT Laboratories, Inc.

Goserelin Acetate

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Product Information

Product ID G5772

CAS No. 145781-92-6

Chemical Name

Pyr-His-Trp-Ser-Tyr-D-Ser(tBu)-
Leu-Arg-Pro-AzaGly-NH₂

Synonym

Formula C₅₉H₈₄N₁₈O₁₄ C₂H₄O₂

Formula Wt. 1329.48

Melting Point

Purity ≥95%

Solubility Soluble in water (20
mg/mL), DMSO.

Bulk quantities available upon request

Product ID	Size
G5772	1 mg
G5772	2.5 mg

Store Temp -20° C

Ship Temp Ambient

Description

Goserelin acts as a peptide agonist at the gonadotropin-releasing hormone (GnRH) or luteinizing hormone releasing hormone (LHRH) receptor, stimulating release of follicle-stimulating hormone (FSH) and luteinizing hormone (LH) and decreasing androgen levels. Goserelin exhibits anticancer chemotherapeutic benefit, inhibiting cell proliferation and tumor growth in cellular and animal models of prostate cancer, likely through indirect activation of PKC and inhibition of EGFR activity. Goserelin also inhibits cell proliferation and tumor growth in cellular and animal models of ovarian cancer through a mechanism that involves inhibition of Akt phosphorylation. In other animal models, goserelin increases bone elongation.

References

Detti L, Uhlmann RA, Zhang J, et al. Goserelin fosters bone elongation but does not prevent ovarian damage in cyclophosphamide-treated prepubertal mice. *Fertil Steril*. 2014 Jan 23. pii: S0015-0282(13)03460-2. [Epub ahead of print]. PMID: 24462062.

Zhang Y, Ding JX, Tao X, et al. Goserelin can inhibit ovarian cancer proliferation and simultaneously protect ovarian function from cisplatin: an in vitro and in vivo study. *J Chemother*. 2013 Apr;25(2):96-103. PMID: 23684357.

Wells A, Souto JC, Solava J, et al. Luteinizing hormone-releasing hormone agonist limits DU-145 prostate cancer growth by attenuating epidermal growth factor receptor signaling. *Clin Cancer Res*. 2002 Apr;8(4):1251-7. PMID: 11948140.

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