

Goserelin acetate (65807-02-5 Free base)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

store at low temperature, keep away from direct sunlight, keep away from moisture

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	Goserelin acetate (ICI-118630 acetate) is a naturally occurring decapeptide, a GnRH (gonadotropin releasing hormone) agonist that reduces the production of sex hormones (testosterone and estrogen) for the treatment of prostate cancer, breast cancer and endometriosis.
Targets(IC50)	GNRH Receptor
In vitro	Goserelin acetate (0.1-100 nM) treatment of pituitary cells revealed a biphasic regulation of LH and FSH secretion, with low concentrations promoting and high concentrations suppressing hormone release, indicating a concentration-dependent modulatory effect on pituitary hormone secretion[1].
In vivo	In vivo, daily subcutaneous administration of Goserelin acetate (5 µg/kg for 21 days) in rats significantly suppressed plasma LH and FSH levels, demonstrating endocrine-suppressive activity via inhibition of the hypothalamic-pituitary-gonadal axis[1].

Solubility Information

Solubility	DMSO: 20 mg/mL, Sonication is recommended. H2O: 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Zhang N, Qiu J, Zheng T, Zhang X, Hua K, Zhang Y. Goserelin promotes the apoptosis of epithelial ovarian cancer cells by upregulating forkhead box O1 through the PI3K/AKT signaling pathway. *Oncol Rep.* 2018 Mar;39(3):1034-1042.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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