

# GOSERELIN

Cas No: 145781-92-6

Summenformel:  $C_{59}H_{84}N_{18}O_{14}$

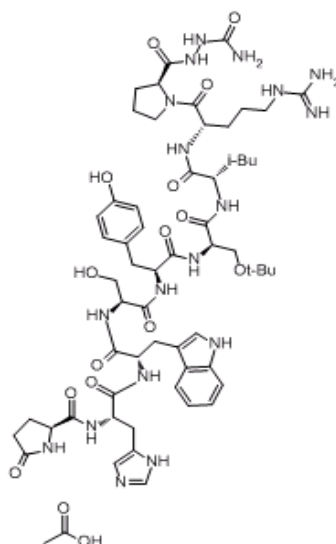
Molekulargewicht: 1269.41 g/ mol

Source: Synthetic

Sequenz: Glp-His-Trp-Ser-Tyr-Ser(tBu)-Leu-Arg-Pro-azaGly-NH<sub>2</sub>

Gegenion: Acetat

Strukturformel von Goserelin  
For research purposes only.



Goserelin acetate is a synthetic decapeptide, which is a potent analog of LHRH (luteinizing hormone releasing hormone). Goserelin is a LHRH super-agonist. Goserelin peptide results in significant inhibition of gonadotropin release and suppresses steroidogenesis in ovaries and testis. Goserelin stimulates the production of the sex hormones testosterone and estrogen in a non-pulsatile (non-physiological) manner. It leads therefore to a reduction of testosterone to castration levels and estrogen to postmenopausal levels. Goserelin is used for reducing testosterone levels in patients with locally advanced prostate cancer.

Goserelin is used to treat hormone-sensitive cancers of the breast (in pre- and peri- menopausal women) and prostate, and some benign gynaecological disorders (endometriosis, uterine fibroids and endometrial thinning). In addition, goserelin is used in assisted reproduction and in the treatment of precocious puberty. It may also be used in the treatment of male-to-female transsexuals and is favoured above other anti-androgens in some countries, such as the UK.

## References

Kotake, Toshihiko; Michiyuki Usami; et al. (August 1999). "Goserelin Acetate with or without Antiandrogen or Estrogen in the Treatment of Patients with Advanced Prostate Cancer: a Multicenter, Randomized, Controlled Trial in Japan". *Japanese Journal of Clin. Oncol.* 29 (11): 562–570.

Dittrich R, Binder H, Cupisti S, Hoffmann I, Beckmann MW, Mueller A. Endocrine treatment of male-to-female transsexuals using gonadotropin-releasing hormone agonist. *Exp Clin Endocrinol Diabetes* 2005;113:586–92.

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