

Human Leuprolide - Purified

Catalog No.:	PA1191
Quantity:	5 mg
Concentration:	1.0 mg/ml
Species:	Human
Source:	Synthetic
Format:	<p>State: Sterile Filtered White lyophilized (freeze-dried) powder.</p> <p>Purity: >98% Greater than 98.0% as determined by:</p> <p>(a) Analysis by RP-HPLC,</p> <p>(b) Mass Spectral Analysis {MALDI-TOF exhibits correct Mw}.</p> <p>Buffer System: Lyophilized from a concentrated solution in water containing no additives.</p> <p>Reconstitution: It is recommended to reconstitute the lyophilized Leuprolide in sterile 18MQ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.</p>
Description:	<p>Synthetic Human Leuprolide is a single, non-glycosylated, polypeptide chain containing 9 amino acids and having a molecular mass of. The b chain has an N-glycosilation site and its structure and glycosilation pattern are very similar to that of pituitary LHRH.</p> <p>AA Sequence: Glu-His-Trp-Ser-Tyr-DLeu-Leu-Arg-Pro-NH₂.</p> <p>Molecular weight: 1 kDa 1209 Dalton</p>
Storage:	Lyophilized Leuprolide although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leuprolide should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
General Readings:	<ol style="list-style-type: none"> Chalmers LJ, Casas L, New MI, Blackett PR. Prolongation of growth by treatment of 11-hydroxylase deficiency with depot-leuprolide, growth hormone, and hydrocortisone. J Pediatr Endocrinol Metab. 2006 Oct;19(10):1251-5. PubMed PMID: 17172087. Re: Olav Erich Yri, Trine Bjoro and Sophie D. Fossa. Failure to achieve castration levels in patients using leuprolide acetate in locally advanced prostate cancer. Eur urol 2006;49:54-8. Eur Urol 2007 Apr;51(4):1146 Mericq G MV, Youlton R R, Willshaw Z ME. [Effectiveness of Leuprolide acetate therapy every three months in central precocious puberty]. Rev Med Chil. 2006 Jul;134(7):821-6. Epub 2006 Aug 29. PubMed PMID: 17130963. Gustofson RL, Segars JH, Larsen FW. Ganirelix acetate causes a rapid reduction in estradiol levels without adversely affecting oocyte maturation in women pretreated with leuprolide acetate who are at risk of ovarian hyperstimulation syndrome. Hum Reprod. 2006 Nov;21(11):2830-7. Epub 2006 Sep 11. PubMed PMID: 16966348. Stability of poly(D,L-lactide-co-glycolide) and leuprolide acetate in in-situ forming drug

delivery systems. J Control Release 2006 Oct 10;115(2):158-67

6. Singh S, Singh J. Phase-sensitive polymer-based controlled delivery systems of leuprolide acetate: in vitro release, biocompatibility, and in vivo absorption in rabbits. Int J Pharm. 2007 Jan 2;328(1):42-8. Epub 2006 Aug 1. PubMed PMID: 16959451.

Pictures:

Precursor- Protein structure and amino acid sequence

