
Product Data Sheet

Product Name: Leuprorelin Human

Cat. No.: GP21273

Batch No.: 1

Product Data

Purity >98%

Source

Physical Appearance

solid

Shipping Condition

Shipped at Room temp.

Synonyms Leuprolide; Leuprorelin.

Amino Acid Sequence

pGlu-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHEt.

Solubility

It is recommended to reconstitute the lyophilized Leuprolide in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Formulation

The Leuprorelin was lyophilized from a concentrated (1mg/ml) solution with no additives.

Introduction

Leuprorelin (INN) or leuprolide acetate (USAN) is a gonadotropin-releasing hormone agonist (GnRH agonist). By causing constant stimulation of the pituitary GnRH receptors, it initially causes stimulation (flare), but thereafter decreases pituitary secretion (downregulation) of gonadotropins luteinizing hormone (LH) and follicle-stimulating hormone (FSH). Like other GnRH agonists, leuprolide may be used in the treatment of hormone-responsive cancers such as prostate cancer or breast cancer, estrogen-dependent conditions (such as endometriosis or uterine fibroids), to treat precocious puberty, and to control ovarian stimulation in IVF.

Stability

Lyophilized Leuprolide although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leuprorelin 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 prevent freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

Leuprolide Human Synthetic is a single, non-glycosylated, polypeptide chain containing 9 amino acids and having a molecular mass of 1209 Dalton. The molecular formula is C₅₉H₈₄N₁₆O₁₂.

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