

## Leuprorelin Human

**Description:**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 C<sub>59</sub>H<sub>84</sub>N<sub>16</sub>O<sub>12</sub>.

Catalog #:HOPS-267

**Synonyms:**Leuprolide, Leuprorelin.

For research use only.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**pGlu-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHEt.

**Purity:**Greater than 98.0% as determined by RP-HPLC.

### Formulation:

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

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized Leuprolide in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### 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.

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