



Leuprolide Acetate

Catalog No: tcsc1434

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 74381-53-6
Formula: C ₆₁ H ₈₈ N ₁₆ O ₁₄
Pathway: GPCR/G Protein
Target: GNRH Receptor
Purity / Grade: >98%
Solubility: DMSO : ≥ 43.4 mg/mL (34.19 mM); H2O : ≥ 66.66 mg/mL (52.51 mM)
Alternative Names: Leuprorelin acetate
Observed Molecular Weight: 1269.45





Product Description

Leuprolide acetate (Leuprorelin) is a GnRH analog; leuprolide acetate acts as an agonist at pituitary GnRH receptors.

IC50 Value:

Target: GnRH receptor

By interrupting the normal pulsatile stimulation of, and thus desensitizing, the GnRH receptors, it indirectly downregulates the secretion of gonadotropins luteinizing hormone (LH) and follicle-stimulating hormone (FSH), leading to hypogonadism and thus a dramatic reduction in estradiol andtestosterone levels in both sexes.

in vitro: The number of DNA 3'-end-labeled cells/cm2 in leiomyomas of control patients and in leiomyomas at the 2nd, 8th, 12th, and 16th weeks of Leuprolide Acetate treatment were at low levels [1]. Testosterone, estradiol and progesterone were also reduced by LA, even though this reduction occurred for progesterone only at the highest LA dosage (10(-6)M; 606.0+/-114.3 ng/ml versus 1524.0+/-246.5 ng/ml; p=0.02) [2].

in vivo: Leuprolide acetate treatment decreases the severity of clinical signs of locomotion, induces a significantly greater body weight gain, increases the MBP and NFs expression, axonal area and cell infiltration in EAE animals [3]. Leuprolide (200 and 300 microg kg(-1) s.c.) per se showed anti-compulsive effect, causing statistically significant inhibition of marble-burying behavior of mice [4].

Clinical trial: Neoadjuvant Abiraterone Acetate Plus Leuprolide Acetate in Men With Localized High Risk Prostate Cancer . Phase 2

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!