PA1188XC

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Human Goserelin - Purified

Catalog No.: PA1188XC

Quantity: 0.1 g

Concentration: 1.0 mg/ml

Background: Goserelin is a synthetic decapeptide analogue of luteinising hormone-releasing hormone (LHRH).
On administration, initially, goserelin causes an increase in the amount of FSH and LH released from the pituitary gland. However, chronic administration of goserelin desensitises the pituitary gland. Eventually, after a period of about 14-21 days, production of LH is greatly reduced due to receptor downregulation, and sex hormones levels are reduced. This reduction in the levels of sex hormone can be exploited to treat disorders that are linked to levels of oestrogen or testosterone; such as prostate cancer, oestrogen dependant breast cancer, endometriosis and other benign gynaecological disorders.

Species: Human

Source: Synthetic

Format: **State:** Lyophilized purified protein (sterile filtered)
Purity: ›98% Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.
Reconstitution: Restore in sterile 18Mohm-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Description: Goserelin is a hormone similar to the one normally released from the hypothalamus gland in the brain (GnRH super-agonist). It is used to treat for prostate and breast cancer. Goserelin decreases the amount of estrogen and testosterone by this treating endometriosis and cancer of the breast, and can help thin the uterus lining before surgery. Goserelin prevents the growth of tissue associated with endometriosis. Reducing the amount of testosterone is one way of treating prostate cancer.
AA Sequence:
`Goserelin contains 10 amino acids Glu1-His2-Trp3-Ser4-Tyr5-D-Ser(tBu)6-Leu7-Arg8-Pro9-AzGly10-NH2`
Molecular weight: 1269.43 Dalton

Storage: Prior to reconstitution stable at RT for 3 weeks.
Following reconstitution store the protein undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Shelf life: one year from despatch.