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# Certificate of Analysis and Data Sheet Human Goserelin

### Catalog No.

228-10563

### 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.

Goserelin contains 10 amino acids Glu1-His2-Trp3-Ser4-Tyr5-D-Ser(tBu)6-Leu7-Arg8-Pro9-AzGly10-NH<sub>2</sub> and having a molecular weight of 1269.43 Dalton.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation

The Goserelin peptide was lyophilized with no additives.

### Solubility

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

### Purity

Greater than 98.0% as determined by

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Stability

Lyophilized Goserelin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Goserelin 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.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**