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Product Data Sheet

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Cat # RP-1487

Human Buserelin

**Size:** 1 mg

Buserelin belongs to the group of gonadotrophin releasing hormone (gonadorelin) analogues (LHRH agonist). It acts on the pituitary gland which controls the amount of many different types of hormones (chemical messengers). It alters the amount of hormones, particularly the oestrogens androgens. This alteration of hormone levels can be exploited to treat cancers of the prostate gland, which are stimulated to grow by testosterone. Buserelin lowers the levels of testosterone, which starves the tumour of testosterone and causes it to shrink. Buserelin contains 9 amino acids Glu-His-Trp-Ser-Tyr-D-Ser(tBu)-Leu-Arg-Pro-NHEt and having a molecular weight of 1239.44 Dalton. The protein (1 mg/ml) was lyophilized with no additives.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Application and Suggested Dilution:** It is recommended to reconstitute the lyophilized Buserelin 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. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE Users must optimize concentration and conditions for each assay.

**Storage and Stability:** Lyophilized Buserelin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Buserelin 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.