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Product Data Sheet

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Cat # RP-1482

Human Nafarelin

**Size:** 1 mg

Nafarelin acetate is a synthetic analog of the naturally occurring gonadotropin-releasing hormone (GnRH). Nafarelin stimulates the release of the pituitary gonadotropins, LH and FSH, resulting in a temporary increase of ovarian steroidogenesis.

**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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**Source:** Nafarelin is a decapeptide containing 9 amino acids Glu-His-Trp-Ser-Ala-Leu-Arg-Pro. Nafarelin is purified by proprietary chromatographic techniques. The protein (1 mg/ml) was lyophilized with no additives.

**Applications and Suggested Dilutions:** It is recommended to reconstitute the lyophilized Nafarelin in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/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 the appropriate concentration and conditions for each assay.

**Storage and Stability:** Lyophilized Nafarelin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NAF 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  $\mu$ l 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.