



LKT Laboratories, Inc.

Gonadorelin Acetate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID G5752

CAS No. 71447-49-9

Chemical Name

Synonym Luteinizing hormone-releasing factor acetate, LH-RH

Formula $C_{55}H_{75}N_{17}O_{13} \cdot 2(C_2H_4O_2)$

Formula Wt. 1302.59

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water, methanol.

Glp-His-Tyr-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
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Store Temp -20°C

Ship Temp Ambient

Description Gonadorelin is a synthetic peptide analog of gonadotropin-releasing hormone (GnRH) or luteinizing hormone releasing hormone (LHRH). Gonadorelin acts as an agonist at the GnRH/LHRH receptor, inducing release of follicle-stimulating hormone (FSH) and luteinizing hormone (LH). This hormone is clinically used to treat endometriosis. Gonadorelin exhibits anti-androgen and anticancer chemotherapeutic activities. In vitro and in vivo, gonadorelin inhibits testosterone activation of androgen receptors. Additionally, gonadorelin increases proliferation of normal cells but inhibits proliferation of prostate cancer cells through a mechanism that involved activation of the ryanodine receptor and increases in intracellular Ca²⁺ levels.

References Maudsley S, Davidson L, Pawson AJ, et al. Gonadotropin-releasing hormone functionally antagonizes testosterone activation of the human androgen receptor in prostate cells through focal adhesion complexes involving Hic-5. *Neuroendocrinology*. 2006;84(5):285-300. PMID: 17202804.

Maiti K, Oh DY, Moon JS, et al. Differential effects of gonadotropin-releasing hormone (GnRH)-I and GnRH-II on prostate cancer cell signaling and death. *J Clin Endocrinol Metab*. 2005 Jul;90(7):4287-98. PMID: 15870130.

Enomoto M, Park MK. GnRH as a cell proliferation regulator: mechanism of action and evolutionary implications. *Zoolog Sci*. 2004 Oct;21(10):1005-13. PMID: 15514469.

Shalev E, Leung PC. Gonadotropin-releasing hormone and reproductive medicine. *J Obstet Gynaecol Can*. 2003 Feb;25(2):98-113. PMID: 12577127.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.