Product Data Sheet

Proteins



[D-Phe2,6, Pro3]-LH-RH

Cat. No.: HY-P3666 CAS No.: 64789-67-9 Molecular Formula: $C_{59}H_{80}N_{14}O_{13}$ Molecular Weight: 1193.35

Sequence Shortening: {Glp}-{d-Phe}-PSY-{d-Phe}-LRPG-NH2

Target: **GnRH Receptor** Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	[D-Phe2,6, Pro3]-LH-RH is a potent luteinizing hormone releasing hormone (LHRH) antagonist ^[1] .				
In Vitro	[D-Phe2,6, Pro3]-LH-RH (0.1 pM-1 mM; 24 h) does not alter GnRH binding capacity in pituitary cells but blocks the increase in sites induced by GnRH ^[2] . [D-Phe2,6, Pro3]-LH-RH (2.7 μM) causes significant increases in thyrotropin (TSH) secretion in pituitaries ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo	[D-Phe2,6, Pro3]-LH-RH (300 mg/monkey, SC, 50 mg/injection; six injections) inhibits spontaneous preovulatory gonadotropin surges and prevents ovulation in the rhesus monkey ^[1] . [D-Phe2,6, Pro3]-LH-RH (750 μg, single injection at 12:00 h on the day of proestrus) inhibits ovulation in 100% of treated rats [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Adult rhesus monkeys ^[1]			
	Dosage:	300 mg/monkey			
	Administration:	SC, every 8 h at a dose of 50 mg/injection; six injections			
	Result:	Showed antagonistic activity: 1) an immediate cessation of the LU and FSH surges; 2) prolonged surges and/or abnormal, discontinuous gonadotropin secretion; 3) LH and FSH peaks of diminished magnitude; 4) the absence of concomitant LH and FSH midcycle peaks; 3) LH and FSH peaks of diminished magnitude; 4) the absence of concomitant LH and FSH midcycle peaks; 5) suppression of serum estradiol concentrations without concurrent reductions in serum gonadotropin values; or 6) a failure to identify corpora lutea at the time of laparoscopic visualization of the ovaries.			

REFERENCES

[1]. Wilks JW, et al. Effect of [D-Phe2, Pro3, D-Phe6]-luteinizing hormone releasing hormone, an antagonist, on preovulatory gonadotropin secretion in the rhesus monkey. Biol Reprod. 1980 Aug;23(1):1-9.

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Loumaye E, et al. Homolo	gous regulation of gonadotro	ppin-releasing hormone receptor	s in cultured pituitary cells. Science. 1982 Feb 19;215	5(4535):983-5.
		LHRH Stimulate in Vitro Thyrotrop AR TO INTEGRATIVE BIOLOGY. 199	oin Secretion by Crested Newt Pituitaries. TRENDS II 98;839(1):522-523.	N COMPARATIVE
	Caution: Product has r	not been fully validated for m	edical applications. For research use only.	
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