[D-Glp1,D-Phe2,D-Trp3,6]-LH-RH

Cat. No.:	HY-P3671
CAS No.:	68059-94-9
Molecular Formula:	$C_{67}H_{84}N_{16}O_{13}$
Molecular Weight:	1321.48
Sequence Shortening:	{d-Glp}-{d-Phe}-{d-Trp}-SY-{d-Trp}-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-Glp1,D-Phe2,D-Trp3,6]-LH-RH is a Luteinizing-hormone-releasing hormone (LHRH) analogue. [D-Glp1,D-Phe2,D-Trp3,6]-LH-RH acts as a GnRH receptor antagonist[1].
IC_{50} & Target	GnRH receptor[1]
In Vitro	[D-Glp1,D-Phe2,D-Trp3,6]-LH-RH (1 μM), together with LH-RH and FSH, blocks the inhibition of FSH-induced steroidogenesis in rat ovary granulosa cells[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	[D-Glp1,D-Phe2,D-Trp3,6]-LH-RH (1.25 and 2.5 mg, subcutaneous injection, b.i.d, for 7 days) prolongs pregnancy in rats[1]. [D-Glp1,D-Phe2,D-Trp3,6]-LH-RH (250 μg) inhibits ovulation by 100% in rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rivier C, et al. Effect of the LRF-antagonist [D-pGlu1, D-Phe2, D-Trp3,6]-LRF on pregnancy in the rat. Contraception. 1979 Feb;19(2):185-90.

[2]. Rivier JE, et al. A potent luteinizing hormone releasing factor antagonist in vitro and inhibitor of ovulation in the rat. Life Sci. 1978 Aug 28;23(8):869-76.

[3]. Hsueh AJ, et al. Effect on an antagonistic analog of gonadotropin releasing hormone upon ovarian granulosa cell function. Life Sci. 1979 Oct 1;25(14):1223-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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