Lamprey LH-RH I

MedChemExpress

Cat. No.:	HY-P3673	
CAS No.:	102634-23-1	
Molecular Formula:	C ₅₈ H ₇₉ N ₁₅ O ₁₅	
Molecular Weight:	1226.34	
Sequence Shortening:	{Glp}-HYSLEWKPG-NH2	
Target:	GnRH Receptor	
Pathway:	GPCR/G Protein	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

BIOLOGICAL ACTIV			
Description	Lamprey LH-RH I is a gonadotropin-releasing hormone, elevates plasma steroid levels and stimulates ovulation in the lamprey without biological activity in other animal models ^[1] .		
In Vitro	Caution: Product has not been fully validated for medical applications. For research use only. Lamprey LH-RH I has a primary mechanism of transport to the pituitary is simple diffusion from neuronal terminals in the neurophypophysis to the adenohypophysis? An additional routens via techet on the third wentricle and transport by tanycytes to the adenohypophysis? Note Q, Monmouth Junction, NJ 08852, USA MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Lamprey LH-RH I (5-200 μg/kg; i.p.; single dose or twice) elevates plasma steroid levels and stimulates lamprey ovulation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female sea-run sea lampreys ^[1]	
	Dosage:	5 μg/kg, 50 μg/kg, 100 μg/kg, 200 μg/kg; dissolved in 0.6% NaCl in distilled water	
	Administration:	Intraperitoneal injection; single dose or twice; observed for 30 days	
	Result:	Significantly increased estradiol in a dose-related manner. Resulted 80% of the lampreys ovulation at 200 or 100 µg/kg compared in a doserelated manner.	

REFERENCES

[1]. Sower SA, et al. Comparative biological properties of lamprey gonadotropin-releasing hormone in vertebrates. Endocrinology. 1987 Feb;120(2):773-9.

[2]. King JC, et al. Neuronal systems immunoreactive with antiserum to lamprey gonadotropin-releasing hormone in the brain of Petromyzon marinus. Cell Tissue Res. 1988 Jul;253(1):1-8.