

Kisspeptin-54(human)

Chemical Properties

CAS No. :	374683-24-6
Formula:	C258H401N79O78
Molecular Weight:	5857.49
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Potent endogenous ligand of the kisspeptin receptor (KISS1, GPR54). Binds with high affinity to rat and human KISS1 receptors with K_i values of 1.80 and 1.45 nM respectively. Inhibits chemotaxis, invasion and metastasis of human melanomas and breast carcinomas. Stimulates gonadotropin secretion following i.c.v. administration.
Targets(IC50)	GNRH Receptor

Solubility Information

Solubility	H2O: 1 mg/mL (0.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1707 mL	0.8536 mL	1.7072 mL
5 mM	0.0341 mL	0.1707 mL	0.3414 mL
10 mM	0.0171 mL	0.0854 mL	0.1707 mL
50 mM	0.0034 mL	0.0171 mL	0.0341 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gottsch et al (2004) A role for kisspeptins in the regulation of g.tropin secretion in the mouse. Endocrinology 145 4073 PMID:

Kotani et al (2001) The metastasis suppressor gene KiSS-1 encodes kisspeptins, the natural ligands of the orphan G protein-coupled receptor GPR54. J.Biol.Chem. 276 34631 PMID:

Ohtaki et al (2001) Metastasis suppressor gene KiSS-1 encodes peptide ligand of a G-protein-coupled receptor. Nature 411 613 PMID:

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