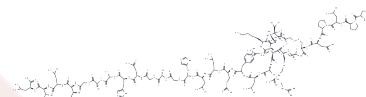


Orexin A (human, rat, mouse)

Chemical Properties

CAS No. :	205640-90-0
Formula:	C152H243N47O44S4
Molecular Weight:	3561.1
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	Orexin A human, rat, mouse, a 33 amino acid excitatory neuropeptide, orchestrates diverse central and peripheral processes. Orexin A human, rat, mouse has been used to study its effect on the functioning of porcine pancreatic islets. It has also been used as an orexin receptor 1 (OX1R) agonist to study the effect of orexin systems in the effect of etonogestrel on respiratory response to prolonged metabolic acidosis.
Targets(IC50)	OX Receptor

Solubility Information

Solubility	H2O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2808 mL	1.4041 mL	2.8081 mL
5 mM	0.0562 mL	0.2808 mL	0.5616 mL
10 mM	0.0281 mL	0.1404 mL	0.2808 mL
50 mM	0.0056 mL	0.0281 mL	0.0562 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

Sakurai T, et al. Orexins and orexin receptors: a family of hypothalamic neuropeptides and G protein-coupled receptors that regulate feeding behavior. Cell. 1998 Feb 20;92(4):573-85.

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