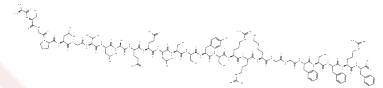


Orphan GPCR SP9155 agonist P550 (mouse, rat)

Chemical Properties

CAS No. :	600171-70-8
Formula:	C126H195N37O37
Molecular Weight:	2820.168
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	Orphan GPCR SP9155 agonist P550 (mouse, rat) (26RFa (mouse, rat)) is an RFamide peptide family member with an orexigenic effect, acting as the cognate ligand for the mouse orphan receptor GPR103, also known as SP9155 or AQ27.
In vitro	26RFa is a crucial neuropeptide involved in regulating energy metabolism [2].
In vivo	26RFa significantly diminishes the release of insulin triggered by glucose, hinders insulin reactions to arginine and exendin-4, and does not influence glucagon production in rat pancreas[3], exhibiting these effects in a dose-dependent manner.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3546 mL	1.7729 mL	3.5459 mL
5 mM	0.0709 mL	0.3546 mL	0.7092 mL
10 mM	0.0355 mL	0.1773 mL	0.3546 mL
50 mM	0.0071 mL	0.0355 mL	0.0709 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

- Chartrel N, et al. Identification of 26RFa, a hypothalamic neuropeptide of the RFamide peptide family with orexigenic activity. Proc Natl Acad Sci U S A. 2003;100(25):15247-15252.
- Chartrel N, et al. The Neuropeptide 26RFa (QRFP) and Its Role in the Regulation of Energy Homeostasis: A Mini-Review. Front Neurosci. 2016;10:549. Published 2016 Nov 29.
- Egido EM, et al. 26RFa, a novel orexigenic neuropeptide, inhibits insulin secretion in the rat pancreas. Peptides. 2007;28(4):725-730.

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