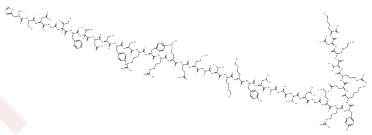
Data Sheet (Cat.No.T81572)

TargetMol

PACAP (1-38)

Chemical Properties



CAS No. : 129405-61-4

Formula: C203H330N62O54S

Molecular Weight: 4535.24

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PACAP (1-38) free acid is a deamidated PACAP (1-38) derived from humans, sheep, and rats. PACAP (1-38) free acid can activate the human PAC1 receptor and promote cyclic adenosine monophosphate synthesis in NS-1 neuroendocrine cells and non-neuroendocrine HEK293 cells.
Targets(IC50)	PACAP
In vitro	PACAP (1-38) free acid promotes neuroendocrine differentiation in NS-1 cells after 48-hour treatment, with an EC50 of 10.6 nM. Following 24-hour intervention within the concentration range of 0.1-300 nM, PACAP (1-38) free acid induces growth arrest in NS-1 cells [1].

Solubility Information

Solubility	DMSO: 80.00 mg/mL (17.64 mM),Sonication is recommended. H2O: 80.00 mg/mL (17.64 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2205 mL	1.1025 mL	2.205 mL
5 mM	0.0441 mL	0.2205 mL	0.441 mL
10 mM	0.022 mL	0.1102 mL	0.2205 mL
50 mM	0.0044 mL	0.022 mL	0.0441 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

Emery AC, et al. C-terminal amidation of PACAP-38 and PACAP-27 is dispensable for biological activity at the PAC1 receptor. Peptides. 2016 May;79:39-48.

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