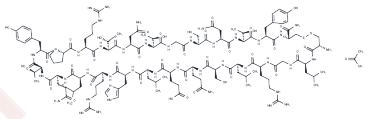
Data Sheet (Cat.No.TP2135L)

TargetMol

cAC 253 acetate

Chemical Properties



CAS No. :

Formula: C128H206N42O42S2

Molecular Weight: 3069.39

Storage: Store at low temperature,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	cAC 253 acetate (TP2135 Free base) is an amylin antagonist. cAC 253 acetate inhibits 125I-adrenomedullin binding, with an IC50 of 25 nM.
Targets(IC50)	Amylin Receptor
In vitro	cAC 253 acetate (5-20 μM) antagonizes adrenomedullin-stimulated cAMP production at micromolar concentrations[1]. cAC 253 acetate (5-10 μM) blocks increases in intracellular Ca2+, activation of protein kinase A, MAPK, Akt, cFos, and cell death, which occur upon AMY3 activation with hAmylin, Aβ1-42, or their co-application[2]. cAC 253 acetate (10 nM) blocks Aβ1-42-induced electrophysiological effects[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3258 mL	1.629 mL	3.258 mL
5 mM	0.0652 mL	0.3258 mL	0.6516 mL
10 mM	0.0326 mL	0.1629 mL	0.3258 mL
50 mM	0.0065 mL	0.0326 mL	0.0652 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

H A Coppock, et al. Rat-2 fibroblasts express specific adrenomedullin receptors, but not calcitonin-gene-related-peptide receptors, which mediate increased intracellular cAMP and inhibit mitogen-activated protein kinase activity. Biochem J. 1999 Feb 15;33

Wen Fu, ET AL. Amyloid β (Aβ) peptide directly activates amylin-3 receptor subtype by triggering multiple intracellular signaling pathways. J Biol Chem. 2012 May 25;287(22):18820-30.

Jack H Jhamandas, et al. Actions of β-amyloid protein on human neurons are expressed through the amylin receptor. Am J Pathol. 2011 Jan;178(1):140-9.