

Bay 55-9837

Chemical Properties

CAS No. : 463930-25-8

Formula: C167H270N52O46

Molecular Weight: 3742.29

HSDAVFTDNYTRLRKQVAACKYLQSIKNKRY-NH₂

Keep away from moisture

Storage: 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	Selective VPAC2 receptor agonist (EC50 values are 0.4, 100 and >1000 nM for VPAC2, VPAC1 and PAC1, respectively in a cAMP accumulation assay; IC50 values are 60, 8700 and >10000 nM for VPAC2, VPAC1 and PAC1, respectively in a competition binding assay). Stimulates glucose-dependent insulin secretion in isolated human pancreatic islets. Reduces HIV-1 viral replication and shows cooperative effects when given in conjunction with VPAC1 agonists.
Targets(IC50)	Glucagon Receptor

Solubility Information

Solubility	H2O: 2 mg/mL (0.53 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	0.2672 mL	1.3361 mL	2.6722 mL
5 mM	0.0534 mL	0.2672 mL	0.5344 mL
10 mM	0.0267 mL	0.1336 mL	0.2672 mL
50 mM	0.0053 mL	0.0267 mL	0.0534 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

- Tsutsumi et al (2002) A potent and highly selective VPAC2 agonist enhances glucose-induced Ins release and glucose disposal: a potential therapy for type 2 diabetes. *Diabetes* 51 1453 PMID:
- Clairmont et al (2006) Engineering of a VPAC2 receptor peptide agonist to impart dipeptidyl peptidase IV stability and enhance in vivo glucose disposal. *J.Med.Chem.* 49 7545 PMID:
- Pan et al (2007) Engineering novel VPAC2-selective agonists with improved stability and glucose-lowering activity in vivo. *J.Pharmacol.Exp.Ther.* 320 900 PMID:
- Temerozo et al (2013) Macrophage resistance to HIV-1 infection is enhanced by the neuropeptides VIP and PACAP. *PLoS ONE* 8 67701 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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