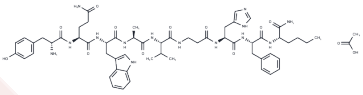
Data Sheet (Cat.No.TP1913L1)

TargetMol

BA 1 acetate(183241-31-8 free base)

Chemical Properties



CAS No. :

Formula: C59H80N14O13

Molecular Weight: 1193.35

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	BA 1 acetate is a potent bombesin receptor agonist (IC50 values are 0.26, 1.55 and 2.52 nM for BB1, BB2 and BB3 respectively). Enhances glucose transport in obese and diabetic primary myocytes. Also stimulates NCI-H1299 lung cancer cell proliferation in vitro.
Targets(IC50)	Bombesin Receptor

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.838 mL	4.1899 mL	8.3798 mL
5 mM	0.1676 mL	0.838 mL	1.676 mL
10 mM	0.0838 mL	0.419 mL	0.838 mL
50 mM	0.0168 mL	0.0838 mL	0.1676 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

González et al (2015) Effect of bombesin receptor subtype-3 and its synthetic agonist on signaling, glucose transport and metabolism in myocytes from patients with obesity and type 2 diabetes Int.J.Mol.Med. 35 925 PMID:
Moody et al (2015) ML-18 is a non-peptide bombesin receptor subtype-3 antagonist which inhibits lung cancer growth. Peptides 64 55 PMID:
Moreno et al (2013) Comparative pharmacology of bombesin receptor subtype-3, nonpeptide agonist MK-5046, a universal peptide agonist, and peptide antagonist Bantag-1 for human bombesin receptors. J.Pharmacol.Exp.Ther. 347 100 PMID:
Mantey et al (1997) Discovery of a high affinity radioligand for the human orphan receptor, bombesin receptor subtype 3, which demonstrates that it has a unique pharmacology compared with other mammalian bombesin receptors. J Biol Chem. 272 26062 PMID: