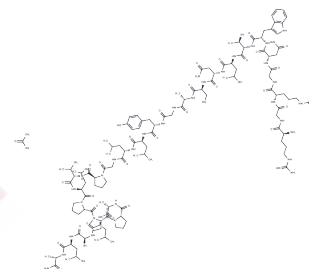## M 1145 acetate

Chemical Properties

CAS No. :

Formula： C130H209N37O34

Molecular Weight： 2834.28

Appearance： Solid

Storage： keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	M1145 acetate, a chimeric peptide, is a selective galanin receptor type 2 (GAL2) agonist, with a Ki of 6.55 nM. M1145 acetate shows more than 90-fold higher affinity for GAL2 over GAL1 (Ki=587 nM) and a 76-fold higher affinity over GalR3 (Ki=497 nM). M1145 acetate has an additive effect on the signal transduction of galanin[1].
Targets(IC50)	Neuropeptide Y Receptor
In vitro	M1145 acetate has an additive effect on the signal transduction of galanin, are concentrations of M1145 acetate of 0.1 μM and higher all give a maximum transduction. Signal transduction was examined by assessing the ability to stimulate inositol phosphates (IP) production in CHO cells expressing GalR2. Treatment with M1145 acetate, which stimulates IP production with an EC50 of 38 nM[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3528 mL	1.7641 mL	3.5282 mL
5 mM	0.0706 mL	0.3528 mL	0.7056 mL
10 mM	0.0353 mL	0.1764 mL	0.3528 mL
50 mM	0.0071 mL	0.0353 mL	0.0706 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.

Reference

Runesson J, Saar I, Lundström L, Järv J, Langel U. A novel GalR2-specific peptide agonist. Neuropeptides. 2009;43 (3):187-192.

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