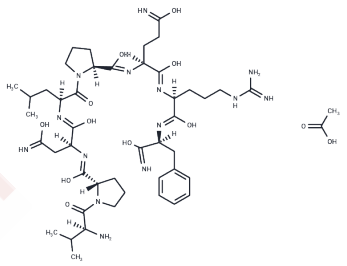
Data Sheet (Cat.No.TP1936L1)

TargetMol

RFRP3(human) acetate(311309-27-0 free base)

Chemical Properties



CAS No. :

Formula: C47H76N14O12

Molecular Weight: 1029.19

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	RFRP-3(human) acetate, a human GnIH peptide homolog, is a potent inhibitor of gonadotropin secretion by inhibiting Ca2+ mobilization. RFRP-3(human) acetate is a NPFF1 receptor agonist, it inhibits forskolin-induced production of cAMP with an IC50 of 0.7 nM.
Targets(IC50)	Neuropeptide FF Receptor
In vitro	RFRP-3(human) acetate efficiently inhibits forskolin-induced production of cAMP with an IC50 of 0.7 nM. Scatchard-plot analysis shows that 125I-labelled hRFRP-3 has a single class of high-affinity binding sites for the membrane fractions of CHO cells expressing rat OT7T022, the Kd value and the Bmax values are 0.19 nM and 1.3 pM, respectively. RFRP-3(human) acetate specifically stimulate cells transfected with a new orphan 7TMR, OT7T022, it binds to OT7T022 as a specific ligand with high affinity (Kd= 0.19 nM)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9716 mL	4.8582 mL	9.7164 mL
5 mM	0.1943 mL	0.9716 mL	1.9433 mL
10 mM	0.0972 mL	0.4858 mL	0.9716 mL
50 mM	0.0194 mL	0.0972 mL	0.1943 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

IJ Clarke, IP Sari, Y Qi,etc. Potent action of RFamide-related peptide-3 on pituitary gonadotropes indicative of a hypophysiotropic role in the negative regulation of gonadotropin secretion.[J]. Endocrinology, 2008(11):5811.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481