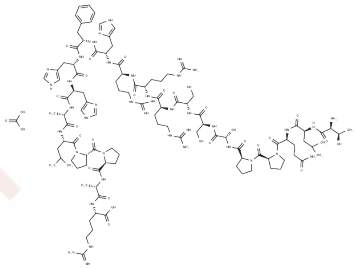
Data Sheet (Cat.No.TP2296L)

TargetMol

TLQP 21 acetate

Chemical Properties



CAS No. :

Formula: C109H174N40O28

Molecular Weight: 2492.8

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	TLQP 21 acetate is a potent agonist of G-protein-coupled receptor complement-3a receptor 1 (C3aR1). The EC50 values are 10.3 μM for mouse and 68.8 μM for human. TLQP 21 acetate is a VGF-derived peptide with endocrine and extraendocrine properties.
Targets(IC50)	Complement System
In vitro	TLQP 21 acetate activated C3aR1 to induce an increase of intracellular Ca2+. TLQP 21 acetate(3 μM) induced up to ~69% of the corresponding contraction promoted by acetylcholine[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4012 mL	2.0058 mL	4.0116 mL
5 mM	0.0802 mL	0.4012 mL	0.8023 mL
10 mM	0.0401 mL	0.2006 mL	0.4012 mL
50 mM	0.008 mL	0.0401 mL	0.0802 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

Cheryl Cero, et al. The TLQP-21 Peptide Activates the G-protein-coupled Receptor C3aR1 via a Folding-Upon-Binding Mechanism. ructure. 2014 Dec 2;22(12):1744-1753.
Elena Bresciani , et al. TLQP-21, A VGF-Derived Peptide Endowed of Endocrine and Extraendocrine Properties: Focus on In Vitro Calcium Signaling. Int J Mol Sci. 2019 Dec 24;21(1):130.

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