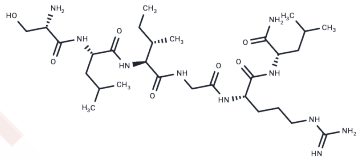
Data Sheet (Cat.No.TP1046)

TargetMol

SLIGRL-NH2

Chemical Properties



CAS No. : 171436-38-7

Formula: C29H56N10O7

Molecular Weight: 656.82

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	SLIGRL-NH2 (Protease-Activated Receptor-2 Activating Peptide) is a PAR-2 agonist that induces non-histaminergic pruritus.
Targets(IC50)	Protease-activated Receptor

Solubility Information

Solubility	DMSO: 80 mg/mL (121.8 mM),Sonication is recommended. H2O: 80 mg/mL (121.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.02 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5225 mL	7.6124 mL	15.2249 mL
5 mM	0.3045 mL	1.5225 mL	3.045 mL
10 mM	0.1522 mL	0.7612 mL	1.5225 mL
50 mM	0.0304 mL	0.1522 mL	0.3045 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

Akiyama T, et al. Behavioral model of itch, alloknesis, pain and allodynia in the lower hindlimb and correlativeresponses of lumbar dorsal horn neurons in the mouse. Neuroscience. 2014 Apr 25;266:38-46.
Li Y, et al. Perivascular adipose tissue-derived relaxing factors: release by peptide agonists via proteinase-activated receptor-2 (PAR2) and non-PAR2 mechanisms. Br J Pharmacol. 2011 Dec;164(8):1990-2002.

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