Data Sheet (Cat.No.T12884)

TargetMol
A DRUG SCREENING EXPERT

Sfllrnpndkyepf

Chemical Properties

CAS No.:	137339-65-2
Formula:	C81H118N20O23
Molecular Weight:	1739.92
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Sfllrnpndkyepf is a synthetic thrombin receptor agonist peptide.
Targets(IC_{50})	Others: None
In vitro	Sfllrnpndkyepf, representing the 14 amino acids starting with Ser-42 of the human thrombin receptor, was found to mimic the effect of thrombin on platelets. Cleavage of the human platelet thrombin receptor by thrombin exposes a new N-terminal which acts as a putative tethered ligand. Sfllrnpndkyepf corresponding to the new N-terminal region, activates and induces platelet aggregation and serotonin secretion. Sfllrnpndkyepf is the minimal peptide length which retains full activity in inducing [14C]serotonin secretion[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (57.47 mM) H2O: 50 mg/mL (28.74 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.575 mL	2.874 mL	5.747 mL
5 mM	0.115 mL	0.575 mL	1.149 mL
10 mM	0.057 mL	0.287 mL	0.575 mL
50 mM	0.011 mL	0.057 mL	0.115 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Sugama Y, et al. Thrombin receptor 14-amino acid peptide mediates endothelial hyperadhesivity and neutrophil adhesion by P-selectin-dependent mechanism. Circ Res. 1992 Oct;71(4):1015-9.
2. Sabo T, et al. Structure-activity studies of the thrombin receptor activating peptide. Biochem Biophys Res Commun. 1992 Oct 30;188(2):604-10.
3. Maruyama Y, et al. Thrombin receptor agonist peptide decreases thrombomodulin activity in cultured human umbilical vein endothelial cells. Biochem Biophys Res Commun. 1994 Mar 30;199(3):1262-9.

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