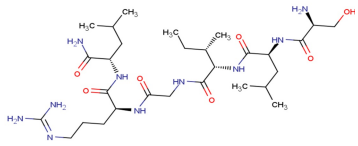
Data Sheet (Cat.No.TP1046)

PAR-2 Activating Peptide

Chemical Properties



CAS No.:	171436-38-7
Formula:	C29H56N10O7
Molecular Weight:	656.8
Appearance:	solid
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	PAR-2 Activating Peptide is an agonist of Protease-Activated Receptor-2 (PAR-2)
In vitro	Protease-Activated Receptor-2 Activating Peptide (SLIGRL-NH2) is an agonist of PAR-2 and MrgprC11[1]. Protease-Activated Receptor-2 Activating Peptide (SLIGRL-NH2) causes an L-ME-inhibited relaxation. Based on SLIGRL-NH2 causing a concentration-dependent relaxation with an EC50 of 10 μM in endothelium-free preparations in the presence of perivascular adipose tissue (PVAT) , 20 μM is used as a suitable 'test' concentration of peptide in subsequent experiments designed to evaluate the effects of potential inhibitors of ADRF release/action. In the endothelium-free aorta preparations, SLIGRL-NH2 causes a concentration-dependent relaxation in preparations only in the presence of PVAT [+PVAT, -ENDO (endothelium)][2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.523 mL	7.613 mL	15.225 mL
5 mM	0.305 mL	1.523 mL	3.045 mL
10 mM	0.152 mL	0.761 mL	1.523 mL
50 mM	0.03 mL	0.152 mL	0.305 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. 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.

2. 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.

Inhibitors · Natural Compounds · Compound Libraries

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481