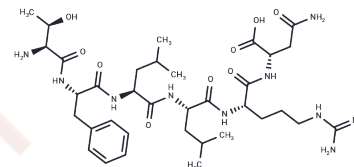


Protease-Activated Receptor-1, PAR-1 Agonist

Chemical Properties

CAS No. :	141136-85-8
Formula:	C35H58N10O9
Molecular Weight:	762.91
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Protease-Activated Receptor-1 (PAR-1) Agonist, a selective peptide, activates the PAR-1 receptor by mimicking the specific actions of thrombin. It corresponds to the PAR1 tethered ligand, facilitating selective activation of this receptor.
Targets(IC50)	Protease-activated Receptor
In vitro	Protease-Activated Receptor-1 (PAR-1) Agonist activates protein kinase C isoenzymes alpha and epsilon in human HT-29 colon carcinoma cells express ng PAR1 endogenously. At the cellular level, both PAR-1 Agonist and thrombin stimulate HT-29 cell migration and matrix adhesion through a PKCepsilon-dependent mechanism, as evidenced by the inhibition of PAR1-mediated effects by the PKC inhibitor bisindolylmaleimide I and the PKCepsilon translocation inhibitory peptide EAVSLKPT, but not by the PKC inhibitor Gö 6976[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3108 mL	6.5539 mL	13.1077 mL
5 mM	0.2622 mL	1.3108 mL	2.6215 mL
10 mM	0.1311 mL	0.6554 mL	1.3108 mL
50 mM	0.0262 mL	0.1311 mL	0.2622 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

Stefanie Gödecke, et al. Thrombin-induced ATP release from human umbilical vein endothelial cells. *Am J Physiol Cell Physiol.* 2012 Mar 15;302(6):C915-23.

Heider I, et al. PAR1-type thrombin receptor stimulates migration and matrix adhesion of human colon carcinoma cells by a PKCepsilon-dependent mechanism. *Oncol Res.* 2004;14(10):475-482.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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