Product Data Sheet

Product Name: PAR 4 (1-6)
Cat. No.: GC11951

Chemical Properties

Cas. No.	225779-44-2		
Chemical Name	(S)-2-((Z)-((S)-2-((Z)-(2-((Z)-(((S)-1-((S)-2-((Z)-(2-amino-1-hydroxyethylidene)amino)-3-(4-hydroxyphenyl)propanoyl)pyrrolidin-2-yl)(hydroxy)methylene)amino)-1-hydroxyethylidene)amino)-1,5-dihydroxy-5-iminopentylidene)amino)-3-methylbutanoic acid		
SMILES	CC([C@@](/N=C(O)/[C@](/N=C(O)/C/N=C(O)/[C@]1([H])CCCN1C([C@](/N=C(O)/CN)([H])CC2=CC=C(O)C=C2)=O)([H])CCC(O)=N)([H])C(O)=O)C		
Formula	$C_{28}H_{41}N_7O_9$	M.Wt	619.68
Solubility	DMF: 50 mg/ml,DMSO: 50 mg/ml,Ethanol: 50 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	PAR 4 (1-6)		

Background

PAR4 (1-6) is a peptide agonist of proteinase-activated receptor 4 (PAR4) that corresponds to residues 1-6 of the amino terminal tethered ligand sequence of human PAR4 and residues 48-53 of the full-length sequence.[1] It activates PAR4 and the cleavage site mutant PAR4R47A when used at a concentration of 500 μM.[2] PAR4 (1-6) induces platelet aggregation of isolated washed human platelets when used at a concentration of 1 mM but does not affect clotting time induced by factor VIIa, soluble tissue factor, and collagen in an ex vivo coagulation assay.[3]

References:
[1]. Vergnolle, N., Wallace, J.L., Bunnett, N.W., et al. Protease-activated receptors in

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inflammation, neuronal signaling and pain. Trends Pharmacol. Sci. 22(3), 146-152 (2001).
[2]. Xu, W.F., Andersen, H., Whitmore, T.E., et al. Cloning and characterization of human protease-activated receptor 4. Proc. Natl. Acad. Sci. USA 95(12), 6642-6646 (1998).
[3]. Andersen, H., Greenberg, D.L., Fujikawa, K., et al. Protease-activated receptor 1 is the primary mediator of thrombin-stimulated platelet procoagulant activity. Proc. Natl. Acad. Sci. USA 96(20), 11189-11193 (1999).

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