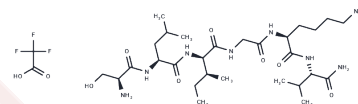


PAR2 (1-6) amide (human) (trifluoroacetate salt)

Chemical Properties

CAS No. :	2379569-17-0
Formula:	C30H55F3N8O9
Molecular Weight:	728.812
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	PAR2 (1-6) amide is a synthetic peptide agonist of proteinase-activated receptor 2 (PAR2) that corresponds to residues 1-6 of the amino terminal tethered ligand sequence of human PAR2 and residues 37-42 of the full-length sequence.1It binds to NCTC 2544 cells expressing human PAR2 (Ki= 9.64 μM in a radioligand binding assay) and induces calcium mobilization in the same cells (EC50= 0.075 μM).2PAR2 (1-6) amide (100 μM) reduces colony formation of A549 lung cancer cells.1It induces superoxide production and degranulation in isolated human eosinophils when used at a concentration of 500 μM.3PAR2 (1-6) amide (5 μmol/kg) induces tear secretion in rats when used in combination with amastatin .4
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Solubility Information

Solubility	Ethanol: 5 mg/mL (6.86 mM),Sonication is recommended. DMF: 30 mg/mL (41.16 mM),Sonication is recommended. DMSO: 15 mg/mL (20.58 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (13.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3721 mL	6.8605 mL	13.721 mL
5 mM	0.2744 mL	1.3721 mL	2.7442 mL
10 mM	0.1372 mL	0.686 mL	1.3721 mL
50 mM	0.0274 mL	0.1372 mL	0.2744 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

- Bohm, S.K., Kong, W., Bromme, D., et al. Molecular cloning, expression and potential functions of the human proteinase-activated receptor-2. *Biochem. J.* 314(Pt 3)1009-1016(1996)
- Kanke, T., Ishiwata, H., Kabeya, M., et al. Binding of a highly potent protease-activated receptor-2 (PAR2) activating peptide, [3H]2-furoyl-LIGRL-NH₂, to human PAR2. *Br. J. Pharmacol.* 145(2)255-263(2005)
- Miike, S., McWilliam, A.S., and Kita, H. Trypsin induces activation and inflammatory mediator release from human eosinophils through protease-activated receptor-2. *J. Immunol.* 167(11)6615-6622(2001)
- Nishikawa, H., Kawai, K., Tanaka, M., et al. Protease-activated receptor-2 (PAR-2)-related peptides induce tear secretion in rats: Involvement of PAR-2 and non-PAR-2 mechanisms. *J. Pharmacol. Exp. Ther.* 312(2)324-331(2005)

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