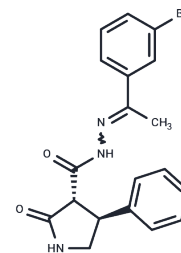


AC-264613

Chemical Properties

CAS No. : 1051487-82-1
 Formula: C₁₉H₁₈BrN₃O₂
 Molecular Weight: 400.28
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	AC-264613 is an agonist of the GPCR protease-activated receptor 2 (PAR2). AC-264613 (AC264613) suppresses interferon regulatory factor 5 and decreases interleukin-12p40 production by lipopolysaccharide-stimulated macrophages. AC-264613(AC264613) activated PAR2 signaling in cellular proliferation assays, phosphatidylinositol hydrolysis assays, and Ca(2+) mobilization assays, with potencies ranging from 30 to 100 nM.
Targets(IC50)	Protease-activated Receptor

Solubility Information

Solubility	DMSO: 40 mg/mL (99.93 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	2.4983 mL	12.4913 mL	24.9825 mL
5 mM	0.4997 mL	2.4983 mL	4.9965 mL
10 mM	0.2498 mL	1.2491 mL	2.4983 mL
50 mM	0.050 mL	0.2498 mL	0.4997 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

Cosimi E, et al. Stereoselective Synthesis of α -Fluoro- γ -nitro Thioesters under Organocatalytic Conditions. *Org Lett*. 2016 Dec 2;18(23):6014-6017

Yamaguchi R, et al. A protease-activated receptor 2 agonist (AC-264613) suppresses interferon regulatory factor 5 and decreases interleukin-12p40 production by lipopolysaccharide-stimulated macrophages: Role of p53. *Cell Biol Int*. 2016 Jun;40(6):629-41

Ma JN, et al. The protease activated receptor 2 (PAR2) polymorphic variant F240S constitutively activates PAR2 receptors and potentiates responses to small-molecule PAR2 agonists. *J Pharmacol Exp Ther*. 2013 Dec;347(3): 697-704

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