Data Sheet (Cat.No.TQ0012)

AZ3451

Chemical Properties

CAS No.:	2100284-59-9
Formula:	C30H27BrN4O3
Molecular Weight:	571.46
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	AZ3451 is an allosteric antagonist of protease-activated receptor-2 (PAR2, IC50: 23 nM).
In vitro	AZ3451 is selective for PAR2 over PAR4 and PAR1 (IC50s = <2.5, 380, and >50,000 nM, respectively, in a β-arrestin-2 recruitment assay). AZ3541 completely inhibits SLIGRL-induced phosphorylation of ERK in 1321N1 astrocytoma cells when used at a concentration of 10 μM.

Solubility Information

Solubility	DMSO: 80 mg/mL (140 mM) Water: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.75 mL	8.75 mL	17.499 mL
5 mM	0.35 mL	1.75 mL	3.5 mL
10 mM	0.175 mL	0.875 mL	1.75 mL
50 mM	0.035 mL	0.175 mL	0.35 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. Cheng RKY, et al. Structural insight into allosteric modulation of protease-activated receptor 2. Nature. 2017 May 4;545(7652):112-115.

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