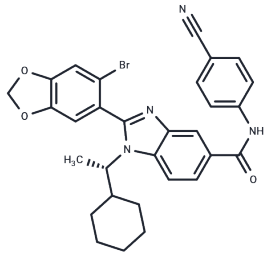
Data Sheet (Cat.No.TQ0012)

TargetMol

AZ3451

Chemical Properties



CAS No. : 2100284-59-9

Formula: C30H27BrN4O3

Molecular Weight: 571.46

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	AZ3451 is an allosteric antagonist of protease-activated receptor-2 (PAR2, IC50: 23 nM).
Targets(IC50)	Protease-activated Receptor
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	H2O: Insoluble, DMSO: 80 mg/mL (139.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (5.77 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7499 mL	8.7495 mL	17.499 mL
5 mM	0.350 mL	1.7499 mL	3.4998 mL
10 mM	0.175 mL	0.875 mL	1.7499 mL
50 mM	0.035 mL	0.175 mL	0.350 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

Cheng RKY, et al. Structural insight into allosteric modulation of protease-activated receptor 2. Nature. 2017 May 4;545(7652):112-115.