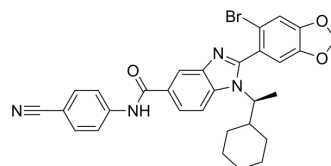


AZ3451

Cat. No.:	HY-112558		
CAS No.:	2100284-59-9		
Molecular Formula:	C ₃₀ H ₂₇ BrN ₄ O ₃		
Molecular Weight:	571.46		
Target:	Protease Activated Receptor (PAR)		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (174.99 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.7499 mL	8.7495 mL	17.4990 mL
		5 mM		0.3500 mL	1.7499 mL	3.4998 mL
10 mM			0.1750 mL	0.8750 mL	1.7499 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.64 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.64 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	AZ3451 is a potent protease-activated receptor-2 (PAR2) antagonist with IC ₅₀ of 23 nM.
IC ₅₀ & Target	PAR2
In Vitro	Antagonist AZ3451 binds to a remote allosteric site outside the helical bundle of the protease-activated receptor 2. AZ3451 is highly lipophilic, which coincides with the hydrophobic nature of the binding pocket within the membrane. Antagonist binding prevents structural rearrangements required for receptor activation and signalling ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Aging (Albany NY). 2019 Dec 16;11(24):12532-12545.
- J Dermatol Sci. 2022 May 17;S0923-1811(22)00125-6.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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