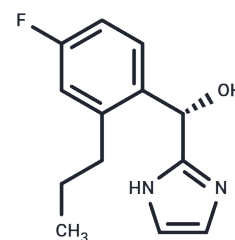


AZ8838

## Chemical Properties

CAS No. : 2100285-41-2  
 Formula: C<sub>13</sub>H<sub>15</sub>N<sub>2</sub>O  
 Molecular Weight: 234.27  
 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	AZ8838 is an effective, competitive, allosteric, orally active non-peptide small molecule antagonist of PAR2 with a pK <sub>i</sub> of 6.4 for hPAR2 [1].
Targets(IC50)	Others, Protease-activated Receptor
In vitro	AZ8838 demonstrates potent antagonistic activity by binding to an occluded pocket, significantly inhibiting SLIGRL-NH <sub>2</sub> in Ca <sup>2+</sup> assays with a pIC <sub>50</sub> of 5.70 ± 0.02. It also shows a consistent potency trend in reducing IP1 production (pIC <sub>50</sub> = 5.84 ± 0.02) and effectively attenuates peptide-induced phosphorylation of ERK1/2 (pIC <sub>50</sub> = 5.7 ± 0.1) alongside β-arrestin-2 recruitment (pIC <sub>50</sub> = 6.1 ± 0.1).
In vivo	AZ8838 (10 mg/kg; p.o.; 2 h prior) demonstrated anti-inflammatory effects in a rat paw oedema model induced by the PAR2 agonist 2f-LIGRLO-NH <sub>2</sub> [1]. Utilizing Wistar rats in an acute oedema model, a single oral dose was administered 2 hours before induction, resulting in a 60% reduction in paw swelling. The compound effectively inhibited the activation of mast cells induced by 2f-LIGRLO-NH <sub>2</sub> , reduced the number of tryptase-positive (AA1+ve) intact mast cells in the paw, and blocked histamine release.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2686 mL	21.3429 mL	42.6858 mL
5 mM	0.8537 mL	4.2686 mL	8.5372 mL
10 mM	0.4269 mL	2.1343 mL	4.2686 mL
50 mM	0.0854 mL	0.4269 mL	0.8537 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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