# AC-264613

Cat. No.: HY-14351 CAS No.: 1051487-82-1 Molecular Formula:  $C_{19}H_{18}BrN_3O_2$ Molecular Weight: 400.27

Target: Protease Activated Receptor (PAR)

Pathway: GPCR/G Protein

Storage: -20°C, sealed storage, away from moisture

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**Product** Data Sheet

### **BIOLOGICAL ACTIVITY**

Description	AC-264613 is a potent and selective protease-activated receptor (PAR-2) agonist with a pEC $_{50}$ of 7.5 $^{[1]}$ .	
IC <sub>50</sub> & Target	pEC50: 7.5 (PAR-2) <sup>[1]</sup>	
In Vitro	AC-264613 (10 µM; for 6 hours) causes a decrease of IRF5 expression and also significantly reduces p53 protein expression in macrophages <sup>[2]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.  Western Blot Analysis <sup>[2]</sup>	
	Cell Line:	Granulocyte-macrophage colony-stimulating factor (GM-CSF)-dependent macrophages
	Concentration:	10 μΜ
	Incubation Time:	6 hours
	Result:	Significantly decreased IRF5 expression and reduced p53 protein levels.
In Vivo	AC-264613 exhibits moderate elimination half-live ( $T_{1/2}$ =2.5±2.0 h) following i.p. administration (10 mg/kg) in male Sprague-Dawley rats <sup>[3]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## **REFERENCES**

[1]. Jimmi Gerner Seitzberg, et al. Discovery of potent and selective small-molecule PAR-2 agonists. J Med Chem. 2008 Sep 25;51(18):5490-3.

[2]. Rui Yamaguchi, 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

[3]. Luis R Gardell, et al. Identification and characterization of novel small-molecule protease-activated receptor 2 agonists. J Pharmacol Exp Ther. 2008 Dec;327(3):799-808.

Page 1 of 2

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com