MCE MedChemExpress

Product Data Sheet

GB83

 Cat. No.:
 HY-124061

 CAS No.:
 1252806-86-2

 Molecular Formula:
 C₃₂H₄₄N₄O₄

Molecular Weight: 548.72

Target: Protease Activated Receptor (PAR)

Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	GB83 is a potent PAR2 antagonist. GB83 reverses neutrophil elastase\(\mathbb{Q}\) induced synovitis and pain. GB83 blocks the effect of MET-1 supernatant on NG neurons\(^{[1]}\).	
IC ₅₀ & Target	PAR2	
In Vitro	GB83 (10 μM) blocks the effect of MET-1 (microbial ecosystem therapeutic-1) supernatant on nodose ganglion (NG) neurons [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	GB83 (5 µg; i.p.) reverses neutrophil elastase\(\mathbb{Q}\) induced synovitis and pain in PAR2 KO mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	8-14 weeks, 20-30 g male C57Bl/6 mice (PAR2 KO mice) $^{[1]}$
	Dosage:	5 μg
	Administration:	I.p.; 3 times at 10 min before and 110 and 230 min after neutrophil elastase administered
	Result:	Significantly blocked the neutrophil elastase induced increase in vascular perfusion, as well as the number of rolling adherent leukocytes, and also significantly attenuated hindpaw allodynia.

REFERENCES

[1]. Muley MM, et al. Neutrophil elastase induces inflammation and pain in mouse knee joints via activation of proteinase-activated receptor-2. Br J Pharmacol. 2016 Feb;173(4):766-77.

[2]. Pradhananga S, et al. Protease-dependent excitation of nodose ganglion neurons by commensal gut bacteria. J Physiol. 2020 Jun;598(11):2137-2151.

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

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

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