



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

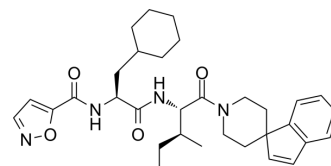
www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



GB-88

Cat. No.:	HY-120261
CAS No.:	1416435-96-5
Molecular Formula:	C ₃₂ H ₄₂ N ₄ O ₄
Molecular Weight:	546.7
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 : 31.25 mg/mL (57.16 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.8292 mL	9.1458 mL	18.2916 mL
		5 mM		0.3658 mL	1.8292 mL	3.6583 mL
		10 mM		0.1829 mL	0.9146 mL	1.8292 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 (3.80 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.80 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.80 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	GB-88 is an oral, selective non-peptide antagonist of PAR2, inhibits PAR2 activated Ca ²⁺ release with an IC ₅₀ of 2 μM ^[1] .
IC ₅₀ & Target	PAR2
In Vitro	GB-88 inhibits iCa ²⁺ release induced in HT29 cells by trypsin, 2f-LIGRLO-NH2 and GB110 (PAR2 agonists). And antagonism by GB-88 is agonist dependent ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

GB-88 (10 mg/kg, p.o. in olive oil) is both orally active and anti-inflammatory in vivo, with specific antagonist activity against four structurally and mechanistically different PAR2 agonists (2f-LIGRLO-NH₂, trypsin, SLIGRL-NH₂ and GB110)^[1]. GB-88 inhibits PAR2-induced acute inflammation in vivo^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (8–9 weeks) ^[1]
Dosage:	10 mg/kg
Administration:	Oral gavage in olive oil
Result:	Was both orally active and anti-inflammatory in vivo, with specific antagonist activity against four structurally and mechanistically different PAR2 agonists (2f-LIGRLO-NH ₂ , trypsin, SLIGRL-NH ₂ and GB110).

CUSTOMER VALIDATION

- Am J Physiol Lung Cell Mol Physiol. 2021 Mar 3.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Suen JY, et al. Modulating human proteinase activated receptor 2 with a novel antagonist (GB88) and agonist (GB110). Br J Pharmacol. 2012 Mar;165(5):1413-23.

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