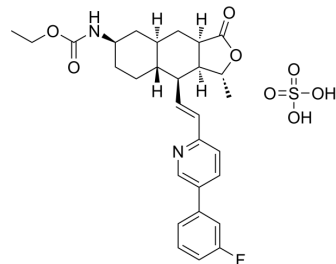


Vorapaxar sulfate

Cat. No.:	HY-10119A
CAS No.:	705260-08-8
Molecular Formula:	C ₂₉ H ₃₅ FN ₂ O ₈ S
Molecular Weight:	590.66
Target:	Protease Activated Receptor (PAR)
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (211.63 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.6930 mL	8.4651 mL	16.9302 mL
5 mM			0.3386 mL	1.6930 mL	3.3860 mL	
	10 mM		0.1693 mL	0.8465 mL	1.6930 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.52 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.52 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Vorapaxar sulfate (SCH 530348 sulfate), an antiplatelet agent, is a selective, orally active, and competitive thrombin receptor protease-activated receptor (PAR-1) antagonist (K _i =8.1 nM). Vorapaxar sulfate inhibits thrombin receptor-activating peptide (TRAP)-induced platelet aggregation in a dose-dependent manner ^[1] .
IC₅₀ & Target	PAR1
In Vitro	Vorapaxar sulfate (SCH 530348 sulfate) shows potent inhibition of thrombin-induced platelet aggregation with an IC ₅₀ of 47 nM and haTRAP-induced platelet aggregation with an IC ₅₀ of 25 nM. Vorapaxar sulfate (SCH 530348 sulfate) inhibits thrombin-induced calcium transient in human coronary artery smooth muscle cells (HCASMC) with a K _i of 1.1 nM. It also inhibits thrombin-stimulated thymidine incorporation in HCASMC with a K _i of 13 nM ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Thromb Haemost. 2023 Apr 15;S1538-7836(23)00322-7.
- Arterioscler Thromb Vasc Biol. 2022 Dec 15.
- Cell Death Dis. 2020 Jul 9;11(7):520.
- J Med Chem. 2017 Aug 24;60(16):7166-7185.
- Biomed Res Int. 2022 Sep 20;2022:8265898.

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REFERENCES

- [1]. Khoufache K, et al. PAR1 contributes to influenza A virus pathogenicity in mice. J Clin Invest. 2013 Jan;123(1):206-14.
- [2]. Kehinde O, et al. Vorapaxar: A novel agent to be considered in the secondary prevention of myocardial infarction. J Pharm Bioallied Sci. 2016 Apr-Jun;8(2):98-105.
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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