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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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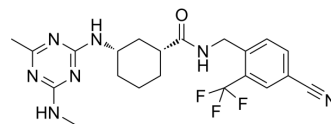
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GSK2256294A

Cat. No.:	HY-19644
CAS No.:	1142090-23-0
Molecular Formula:	C ₂₁ H ₂₄ F ₃ N ₇ O
Molecular Weight:	447.46
Target:	Epoxide Hydrolase
Pathway:	Metabolic Enzyme/Protease
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 : ≥ 47 mg/mL (105.04 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.2348 mL	11.1742 mL	22.3484 mL
	5 mM		0.4470 mL	2.2348 mL	4.4697 mL
	10 mM		0.2235 mL	1.1174 mL	2.2348 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GSK2256294A (GSK 2256294) is a selective and orally active inhibitor of soluble epoxide hydrolase (sEH). GSK2256294A inhibits recombinant human sEH, rat sEH orthologs and murine sEH orthologs with IC₅₀s of 27, 61 and 189 pM, respectively. GSK2256294A can be used for the research of chronic obstructive pulmonary disease (COPD) and cardiovascular disease^[1].

IC₅₀ & Target

IC₅₀: 27 pM (recombinant human sEH), 61 pM (rat sEH orthologs), 189 pM (murine sEH orthologs)^[1]

In Vitro	GSK2256294A (300 pM-10 µM; 2 h) inhibits the conversion of 14,15-EET-d11 to 14,15-DHET-d11 in human, rat and mouse whole blood^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	GSK2256294A (5-30 mg/kg; p.o. twice daily 5 days/week for two weeks) inhibits the generation and maintenance of pulmonary inflammation in cigarette smoke-exposed mice^[1]. GSK2256294A (30 mg/kg; p.o. twice daily for 8 days) decreases pulmonary inflammation in cigarette smoke-exposed mice^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Mice exposed to cigarette smoke 5 days/week for 2 weeks ^[1]
	Dosage:	5 and 30 mg/kg
	Administration:	Oral gavage; 5 and 30 mg/kg twice daily 5 days/week; for 2 weeks
	Result:	Dose-dependently inhibited numbers of BAL fluid total cells, neutrophils, macrophages and the keratinocyte chemoattractant (KC) levels in lung tissue.
	Animal Model:	Mice exposed to cigarette smoke 5 days/week for 2 weeks ^[1]
	Dosage:	30 mg/kg
	Administration:	Oral gavage; 30 mg/kg twice daily; for 8 days
	Result:	Significantly reduced neutrophils, macrophages and pulmonary inflammation in cigarette smoke-exposed mice.

CUSTOMER VALIDATION

- Diabetes. 2018 Jun;67(6):1162-1172.
- Universidad El Bosque. Maria Fernanda Salazar Romero. 2022 May.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Podolin PL, et al. In vitro and in vivo characterization of a novel soluble epoxide hydrolase inhibitor. Prostaglandins Other Lipid Mediat. 2013 Jul-Aug;104-105:25-31.

Caution: Product has not been fully validated for medical applications. For research use only.

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