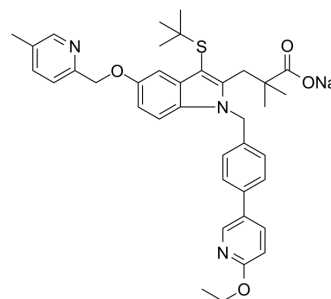


Fiboflapon sodium

Cat. No.:	HY-15874A
CAS No.:	1196070-26-4
Molecular Formula:	C ₃₈ H ₄₂ N ₃ NaO ₄ S
Molecular Weight:	659.81
Target:	FLAP; Leukotriene Receptor
Pathway:	Immunology/Inflammation; 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 : 100 mg/mL (151.56 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.5156 mL	7.5779 mL	15.1559 mL
		5 mM		0.3031 mL	1.5156 mL	3.0312 mL
		10 mM		0.1516 mL	0.7578 mL	1.5156 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (3.79 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.79 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.79 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Fiboflapon sodium (GSK2190915; AM-803) is a potent and orally bioavailable 5-lipoxygenase-activating protein (FLAP) inhibitor with a potency of 2.9 nM in FLAP binding, an IC ₅₀ of 76 nM for inhibition of LTB ₄ in human blood ^[1] .
IC₅₀ & Target	LTB ₄ 76 nM (IC ₅₀)
In Vitro	Fiboflapon (AM803) exhibits excellent preclinical toxicology and pharmacokinetics in rat and dog. Fiboflapon (AM803) also demonstrated an extended pharmacodynamic effect in a rodent bronchoalveolar lavage (BAL) model ^[1] . Oral administration of Fiboflapon (AM803) (1 mg/kg) resulted in sustained inhibition of ex vivo ionophore-challenged whole blood LTB ₄

biosynthesis with >90% inhibition for up to 12 h and an EC₅₀ of approximately 7 nM. When rat lungs were challenged in vivo with calcium-ionophore, Fibroflapon (AM803) inhibited LTB₄ and cysteinyl leukotriene (CysLT) production with ED₅₀s of 0.12 mg/kg and 0.37 mg/kg, respectively. The inhibition measured 16 h following a single oral dose of 3 mg/kg was 86% and 41% for LTB₄ and CysLTs, respectively. In an acute inflammation setting, Fibroflapon (AM803) dose-dependently reduced LTB₄, CysLTs, plasma protein extravasation and neutrophil influx induced by peritoneal zymosan injection. Finally, AM803 increased survival time in mice exposed to a lethal intravenous injection of platelet activating factor (PAF)^[2].

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

REFERENCES

[1]. Stock NS, et al. 5-Lipoxygenase-activating protein (FLAP) inhibitors. Part 4: development of 3-[3-tert-butylsulfanyl-1-[4-(6-ethoxy-pyridin-3-yl)benzyl]-5-(5-methylpyridin-2-ylmethoxy)-1H-indol-2-yl]-2,2-dimethylpropionic acid (AM803), a potent, oral, once daily FLAP inhibitor. *J Med Chem.* 2011 Dec 8;54(23):8013-29.

[2]. Lorrain DS, et al. Pharmacology of AM803, a novel selective five-lipoxygenase-activating protein (FLAP) inhibitor in rodent models of acute inflammation. *Eur J Pharmacol.* 2010 Aug 25;640(1-3):211-8.

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

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