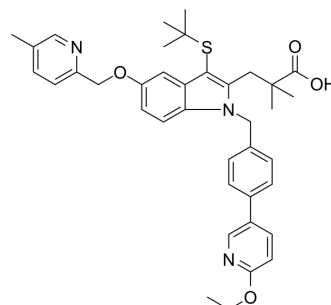


Fiboflapon

Cat. No.:	HY-15874		
CAS No.:	936350-00-4		
Molecular Formula:	C ₃₈ H ₄₃ N ₃ O ₄ S		
Molecular Weight:	637.83		
Target:	FLAP; Leukotriene Receptor		
Pathway:	Immunology/Inflammation; 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 : 50 mg/mL (78.39 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.5678 mL	7.8391 mL	15.6782 mL
		5 mM	0.3136 mL	1.5678 mL	3.1356 mL
10 mM		0.1568 mL	0.7839 mL	1.5678 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: 50% PEG300 >> 50% saline Solubility: 10 mg/mL (15.68 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.92 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Fiboflapon (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 (AM-803) exhibits excellent preclinical toxicology and pharmacokinetics in rat and dog. Fiboflapon (AM-803) also demonstrated an extended pharmacodynamic effect in a rodent bronchoalveolar lavage (BAL) model [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Oral administration of Fibroflapon (AM-803: 1 mg/kg) results in sustained inhibition of ex vivo ionophore-challenged whole blood LTB4 biosynthesis with >90% inhibition for up to 12 h and an EC₅₀ of approximately 7 nM. When rat lungs are challenged in vivo with calcium-ionophore, Fibroflapon (AM-803) inhibits 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 dose-dependently reduced LTB4, CysLTs, plasma protein extravasation and neutrophil influx induced by peritoneal zymosan injection. Finally, Fibroflapon increases survival time in mice exposed to a lethal intravenous injection of platelet activating factor (PAF)^[1]. 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-ethoxypyridin-3-yl)benzyl]-5-(5-methylpyridin-2-ylmethoxy)-1H-indol-2-yl]-2,2-dimethylpropionic acid (AM803), a potent, oral, once
- [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.

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