HPGDS inhibitor 1

MedChemExpress

Cat. No.:	HY-10439			
CAS No.:	1033836-12-2			
Molecular Formula:	C ₁₉ H ₁₉ F ₄ N ₃ O			
Molecular Weight:	381.37			
Target:	PGE synthase			
Pathway:	Immunology/Inflammation			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

		Concentration		5 mg	10 mg	
Preparing Stock Solutions	1 mM	2.6221 mL	13.1106 mL	26.2213 mL		
		5 mM	0.5244 mL	2.6221 mL	5.2443 mL	
		10 mM	0.2622 mL	1.3111 mL	2.6221 mL	
	Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY			
Description	HPGDS inhibitor 1 is a potent, selective and orally active Hematopoietic Prostaglandin D Synthase (HPGDS) inhibitor with an IC ₅₀ s of 0.6 nM and 32 nM in enzyme and cellular assays, respectively. HPGDS inhibitor 1 does not inhibit human L-PGDS, mPGES, COX-1, COX-2, or 5-LOX ^[1] .		
IC ₅₀ & Target	IC50: 0.6 nM (HPGDS in enzyme assays) and 32 nM (HPGDS in cellular assays) $^{[1]}$		
In Vitro	HPGDS inhibitor 1 has equal potency against purified HPGDS from human, rat, dog, and sheep (IC ₅₀ , 0.5-2.3 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	HPGDS inhibitor 1 (compound 8; 1 mg/kg) has excellent PK characteristics with 76% bioavailability, and the T _{1/2} is 4.1 hours in rats ^[1] . Rats dosed orally with 1 mg/kg and 10 mg/kg HPGDS inhibitor 1 (compound 8) are sacrificed at various times. Oral		

Product Data Sheet

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N H ≺F F administration of HPGDS inhibitor 1 blocks PGD2 production in the rat spleen; inhibition of PGD2 is inversely correlated with the plasma concentration of HPGDS inhibitor 1 in a time- and dose-dependent manner^[1]. HPGDS inhibitor 1 (compound 8; 1 mg/mL) illustrates efficacy in an in vivo sheep model of asthma^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chris P Carron, et al. Discovery of an Oral Potent Selective Inhibitor of Hematopoietic Prostaglandin D Synthase (HPGDS). ACS Med Chem Lett. 2010 Feb 2;1(2):59-63.

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

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