HAMI 3379

-112248A		
15653-57-9)	
H ₄₅ NO ₈		
5.72		
kotriene	Receptor	
CR/G Prot	ein	
wder	-20°C	3 years
olvent	-80°C	6 months
	-20°C	1 month
	H₄₅NO ₈ 5.72 ukotriene CR/G Prot wder solvent	45653-57-9 H ₄₅ NO ₈ 5.72 Jkotriene Receptor CR/G Protein wder -20°C

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SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
		Concentration			
		1 mM	1.6786 mL	8.3932 mL	16.7864 mL
		5 mM	0.3357 mL	1.6786 mL	3.3573 mL
		10 mM	0.1679 mL	0.8393 mL	1.6786 mL

BIOLOGICAL ACTIV	
Description	HAMI 3379 is a potent and selective CysLT ₂ receptor antagonist. HAMI 3379 has a protective effect on acute and subacute ischemic brain injury, and attenuates microglia-related inflammation ^{[1][2]} .
IC ₅₀ & Target	CysLT ₂
In Vitro	In a CysLT ₂ receptor reporter cell line, HAMI3379 antagonizes leukotriene D ₄ - (LTD ₄ -) and leukotriene C ₄ - (LTC ₄ -) induced intracellular calcium mobilization with IC ₅₀ values of 3.8 nM and 4.4 nM respectively. HAMI3379 exhibits very low potency on a recombinant CysLT ₁ receptor cell line (IC ₅₀ >10000 nM). HAMI3379 does not exhibit any agonistic activity on both CysLT receptor cell lines ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	HAMI 3379 (0.025-0.4 mg/kg; ip) with 0.1-0.4 mg/kg significantly reduces the infarct volume and percentage increase in the ischemic/contralateral hemispheric ratio ^[2] . HAMI3379 (0.1 mg/kg; ip) administered at 0 and 1 h after reperfusion reduces infarct volume, attenuated brain edema, reduced neurological score, and increased holdingangle ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

Animal Model:	Male Sprague-Dawley rats (250-300 g) after MCAO ^[2]
Dosage:	0.025, 0.05, 0.1, 0.2, 0.4 mg/kg
Administration:	IP
Result:	Significantly reduced the infarct volume and percentage increase inthe ischemic/contralateral hemispheric ratio (an index ofbrain edema) with 0.1-0.4 mg/kg. Significantly reduced the neurological deficit score.

REFERENCES

[1]. F Wunder, et al. Pharmacological characterization of the first potent and selective antagonist at the cysteinyl leukotriene 2 (CysLT(2)) receptor. Br J Pharmacol. 2010 May;160(2):399-409.

[2]. Q J Shi, et al. HAMI 3379, a CysLT2R antagonist, dose- and time-dependently attenuates brain injury and inhibits microglial inflammation after focal cerebral ischemia in rats. Neuroscience. 2015 Apr 16;291:53-69.

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

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