(Rac)-HAMI 3379

Cat. No.: HY-112248

CAS No.: 712313-35-4

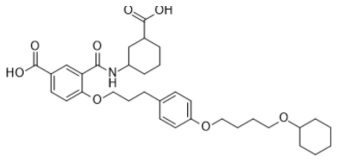
Molecular Formula: $C_{34}H_{45}NO_8$

Molecular Weight: 595.72

Target: Leukotriene Receptor

Pathway: GPCR/G Protein

Storage: -20°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 (167.86 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	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

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (4.20 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-HAMI 3379 is the racemate of HAMI 3379. HAMI 3379 is a potent and selective Cysteinyl leukotriene ($CysLT_2$) receptor antagonist[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[1].

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

CUSTOMER VALIDATION

- Sci Immunol. 2022 Mar 4;7(69):eabf6734.

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REFERENCES

[1]. Wunder F, 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]. Zhang XY, et al. HAMI 3379, a CysLT2 receptor antagonist, attenuates ischemia-like neuronal injury by inhibiting microglial activation. J Pharmacol Exp Ther. 2013 Aug;346(2):328-41.

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