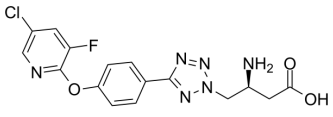
LTA4H-IN-1

Cat. No.:	HY-137298
CAS No.:	1799681-85-8
Molecular Formula:	$C_{16}H_{14}ClFN_6O_3$
Molecular Weight:	392.77
Target:	Aminopeptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (636.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5460 mL	12.7301 mL	25.4602 mL
	5 mM	0.5092 mL	2.5460 mL	5.0920 mL
	10 mM	0.2546 mL	1.2730 mL	2.5460 mL

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

BIOLOGICAL ACTIVITY

Description

LTA4H-IN-1 is a potent inhibitor of leukotriene A4 hydrolase (LTA4H) extracted from patent WO2015092740A1, example 29, has an IC_{50} of 2 nM. LTA4H-IN-1 can be used for the research of inflammatory and autoimmune disorders[1].

IC_{50} & Target

IC50: 2 nM (LTA4H)[1]

In Vitro

LTA4H-IN-1 (15 min) inhibits the hydrolysis of 7-amino-4-methylcoumarin (AMC) derivative of Arginine (Arg-AMC) which is catalyzed by LTA4H, with an IC_{50} of 2 nM[1].

LTA4H-IN-1 (30 min) inhibits LTB4 biosynthesis in a human whole blood assay (hWB), with an IC_{50} of 167 nM[1].

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

In Vivo

LTA4H-IN-1 (0.3 mg/kg; a single p.o.) inhibits the -43% release of LTB4 compared with vehicle control in mice[1].

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

REFERENCES

[1]. Bollbuck B, et, al. Heteroaryl butanoic acid derivatives as leukotriene A4 hydrolase inhibitors and their preparation, pharmaceutical compositions and use in the treatment of diseases. WO2015092740A1.

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