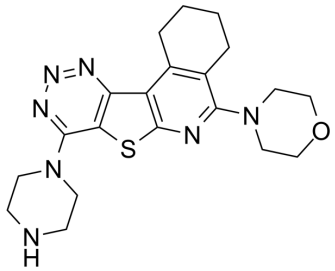
UNC10201652

Cat. No.:	HY-148044
CAS No.:	372495-52-8
Molecular Formula:	$C_{20}H_{25}N_7OS$
Molecular Weight:	411.52
Target:	Bacterial
Pathway:	Anti-infection
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 : 13.3 mg/mL (32.32 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4300 mL	12.1501 mL	24.3002 mL
	5 mM	0.4860 mL	2.4300 mL	4.8600 mL
	10 mM	0.2430 mL	1.2150 mL	2.4300 mL

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

BIOLOGICAL ACTIVITY

Description

UNC10201652 is a potent Loop 1 (L1)-specific gut bacterial β-glucuronidase (GUSs) inhibitor with an IC_{50} value of 0.117 μM for E. coli GUS. UNC10201652 can block SN-38 glucuronide (HY-126373) processing only in individuals whose fecal gut microbiota is highly abundant in L1 GUS enzymes[1][2].

IC_{50} & Target

IC_{50}: 0.117 μM (E. coli GUS)[1]
EC_{50}: 74±7 nM (E. coli)[1]

In Vitro

UNC10201652 exhibits potently inhibitory activity against wild type E. coli with an EC_{50} of 74±7 nM[2].

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

REFERENCES

[1]. Jariwala PB, et al. Discovering the Microbial Enzymes Driving Drug Toxicity with Activity-Based Protein Profiling. ACS Chem Biol. 2020 Jan 17;15(1):217-225.

[2]. Pellock SJ, et al. Gut Microbial β-Glucuronidase Inhibition via Catalytic Cycle Interception. ACS Cent Sci. 2018 Jul 25;4(7):868-879.

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