

Datasheet

Inhibitors / Agonists / Screening Libraries

A DRUG SCREENING EXPERT

Product Name : LDH-IN-1
Catalog Number : T11829
CAS Number : 1964515-43-2
Molecular Formula : C30H26N4O4S2
Molecular Weight : 570.68

Description: LDH-IN-1 is a pyrazole-based human lactate dehydrogenase (LDH) inhibitor(IC50s of 32 and 27 nM for LDHA and LDHB, respectively).

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

Solubility	DMSO	52 mg/mL (91.12 mM), Need ultrasonic
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Receptor (IC50)	LDHA	32 nM
	LDHB	27 nM

In vitro Activity

LDH-IN-1 exhibit low nM inhibition of both LDHA and LDHB, submicromolar inhibition of lactate production, and inhibition of glycolysis in MiaPaCa2 pancreatic cancer and A673 sarcoma cells.

In vivo Activity

LDH-IN-1 shows clearance values that far exceed hepatic blood flow in mouse species (90 mL/min/kg), with in vivo clearances of 227 mL/min/kg[1].

Reference

0. Rai G, et al. Discovery and Optimization of Potent, Cell-Active Pyrazole-Based Inhibitors of Lactate Dehydrogenase (LDH). J Med Chem. 2017 Nov 22;60(22):9184-9204.
1. Rai G, et al. Discovery and Optimization of Potent, Cell-Active Pyrazole-Based Inhibitors of Lactate Dehydrogenase (LDH). J Med Chem. 2017 Nov 22;60(22):9184-9204.

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