AXKO-0046

Cat. No.: HY-147216

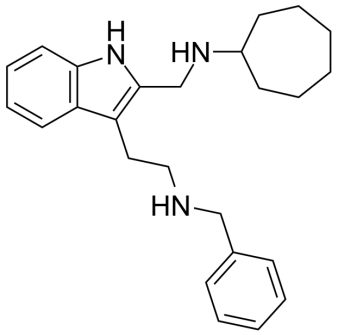
Molecular Formula: $C_{25}H_{33}N_3$

Molecular Weight: 375.55

Target: Lactate Dehydrogenase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (266.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6628 mL	13.3138 mL	26.6276 mL
	5 mM	0.5326 mL	2.6628 mL	5.3255 mL
	10 mM	0.2663 mL	1.3314 mL	2.6628 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 (6.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.66 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AXKO-0046, indole derivative, is an uncompetitive Lactate dehydrogenase B (LDHB) selective inhibitor.AXKO-0046 has LDHB inhibitory activity with an EC_{50} value of 42 nM.AXKO-0046 can be used for the research of cancer metabolism[1].

IC_{50} & Target

EC50:42 nM (LDHB)[1].

In Vitro

AXKO-0046 has LDHB inhibitory activity with an EC_{50} value of 42 nM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sachio Shibata, et al. Identification of the first highly selective inhibitor of human lactate dehydrogenase B. Sci Rep. 2021 Nov 1;11(1):21353.

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