PHGDH-inactive

Cat. No.: HY-121733

CAS No.: 1914971-16-6

Molecular Formula: $C_{17}H_{21}N_5S$

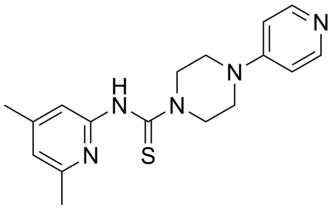
Molecular Weight: 327.45

Target: Phosphoglycerate Dehydrogenase (PHGDH)

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (254.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0539 mL	15.2695 mL	30.5390 mL
	5 mM	0.6108 mL	3.0539 mL	6.1078 mL
	10 mM	0.3054 mL	1.5270 mL	3.0539 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: ≥ 2.08 mg/mL (6.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PHGDH-inactive has no activity against PHGDH and serves as a negative control of NCT-502 and NCT-503[1].

In Vitro

PHGDH-inactive has no activity against PHGDH and serves as a negative control[1].

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

REFERENCES

[1]. Pacold ME, et al. A PHGDH inhibitor reveals coordination of serine synthesis and one-carbon unit fate [published correction appears in Nat Chem Biol. 2016 Jul 19;12 (8):656]. Nat Chem Biol. 2016;12(6):452-458.

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