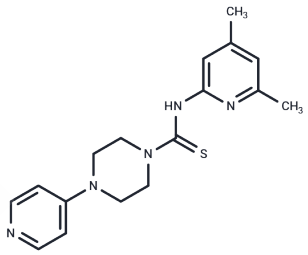
Data Sheet (Cat.No.T23150)

TargetMol

PHGDH-inactive

Chemical Properties



CAS No. : 1914971-16-6

Formula: C17H21N5S

Molecular Weight: 327.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PHGDH inactive is inactive against PHGDH and serves as a negative control for NCT-502 and NCT-503 [1].
Targets(IC50)	Others,Dehydrogenase

Solubility Information

Solubility	DMSO: 8 mg/mL (24.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.05 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0539 mL	15.2695 mL	30.539 mL
5 mM	0.6108 mL	3.0539 mL	6.1078 mL
10 mM	0.3054 mL	1.527 mL	3.0539 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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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