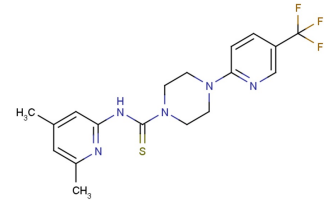


## Data Sheet (Cat.No.T16277)

NCT-502

### Chemical Properties

CAS No.:	1542213-00-2
Formula:	C <sub>18</sub> H <sub>20</sub> F <sub>3</sub> N <sub>5</sub> S
Molecular Weight:	395.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	NCT-502 is a human phosphoglycerate dehydrogenase (PHGDH) inhibitor, cytotoxic to PHGDH-dependent cancer cells. It decreases glucose-derived serine production and it has an IC <sub>50</sub> of 3.7 μM against PHGDH.
Targets(IC <sub>50</sub> )	PHGDH: 3.7 μM
In vitro	NCT-502 is cytotoxic to MDA-MB-468 (EC <sub>50</sub> : 15.2 μM).

### Solubility Information

Solubility	DMSO: 130 mg/mL (328.74 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.529 mL	12.644 mL	25.288 mL
5 mM	0.506 mL	2.529 mL	5.058 mL
10 mM	0.253 mL	1.264 mL	2.529 mL
50 mM	0.051 mL	0.253 mL	0.506 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Rohde JM, et al. Discovery and optimization of piperazine-1-thiourea-based human phosphoglycerate dehydrogenase inhibitors. *Bioorg Med Chem.* 2018 May 1;26(8):1727-1739.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481