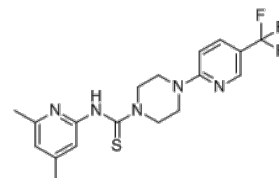


**Product Name** : NCT-502  
**Cat. No.** : PC-62265  
**CAS No.** : 1542213-00-2  
**Molecular Formula** : C<sub>18</sub>H<sub>20</sub>F<sub>3</sub>N<sub>5</sub>S  
**Molecular Weight** : 395.448  
**Target** : PHGDH  
**Solubility** : 10 mM in DMSO



## Biological Activity

NCT-502 is a small molecule 3-phosphoglycerate dehydrogenase (**PHGDH**) inhibitor (IC<sub>50</sub>=3.7 μM) that reduces the production of glucose-derived serine in cells and suppress the growth of PHGDH-dependent cancer cells. NCT-502 decreases intracellular serine and glycine concentrations in MDA-MB-231 cells. NCT-502 also reduces the PSAT1-catalyzed production of M+5-α-ketoglutarate.

## References

Pacold ME, et al. *Nat Chem Biol*. 2016 Jun;12(6):452-8.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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