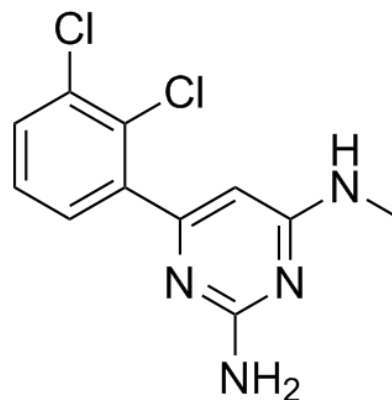


**Product Name** : TH-287  
**Cat. No.** : PC-45104  
**CAS No.** : 1609960-30-6  
**Molecular Formula** : C<sub>11</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>4</sub>  
**Molecular Weight** : 269.1299  
**Target** : DNA Repair Protein  
**Solubility** : DMSO: ≥ 2.6 mg/mL



### Biological Activity

TH-287 is a potent and selective inhibitor of **MTH1 (NUDT1)** protein with IC<sub>50</sub> of 0.8 nM.

TH-287 shows no relevant inhibition for MTH2,NUDT5, NUDT12,NUDT14,NUDT16 and other proteins with known nucleoside triphosphate pyrophosphatase activity.

TH-287 causes incorporation of oxidized dNTPs in cancer cells, leading to DNA damage, cytotoxicity and therapeutic responses in patient-derived mouse xenografts.

### References

Gad H, et al. *Nature*. 2014 Apr 10;508(7495):215-21.

Wang M, et al. *Sci Rep*. 2017 Jan 11;7:40557.

Kawamura T, et al. *Sci Rep*. 2016 May 23;6:26521.

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

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