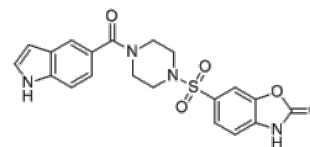


**Product Name** : TH1760  
**Cat. No.** : PC-38226  
**CAS No.** : 2567914-01-4  
**Molecular Formula** : C<sub>20</sub>H<sub>18</sub>N<sub>4</sub>O<sub>5</sub>S  
**Molecular Weight** : 426.447  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

TH1760 (TH 1760) is a first-in-class, potent, selective, cell-active **NUDT15** inhibitor with IC<sub>50</sub> of 25 nM.

TH1760 displays no significant interaction and/or inhibition against other human NUDIX proteins (MTH1, NUDT2, NUDT5, NUDT9, NUDT12, NUDT14, NUDT18 and NUDT22) and nucleotide pyrophosphatases (dCTPase, dUTPase and ITPase).

TH1760 sensitized cells to thiopurine in a NUDT15-dependent manner, through promoting intracellular accumulation and incorporation of 6-thio-dGTP.

At the tested concentration of 10 μM, TH1760 effectively engaged intracellular NUDT15 and further strongly potentiated its substrate thiopurines metabolites, without demonstrating apparent off-target toxicity.

TH1760 is a valuable tool to decipher the potential of NUDT15 inhibition in overcoming emerging resistance during thiopurine therapy.

## References

Zhang SM, et al. *Nat Chem Biol*. 2020 Oct;16(10):1120-1128.

Rehling D, et al. *J Biol Chem*. 2021 Jan-Jun;296:100568.

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

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