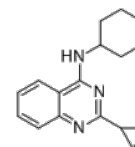


**Product Name** : TH10785  
**Cat. No.** : PC-47083  
**CAS No.** : 1002801-51-5  
**Molecular Formula** : C<sub>17</sub>H<sub>21</sub>N<sub>3</sub>  
**Molecular Weight** : 267.376  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

TH10785 is a small-molecule activator of 8-oxoguanine (8-oxoG) DNA glycosylase 1 (**OGG1**), increases the enzyme activity 10-fold, TH10785 increases OGG1 recruitment to and repair of oxidative DNA damage in cells.

TH10785 interacts with the phenylalanine-319 and glycine-42 amino acids of OGG1, controls the catalytic activity mediated by a nitrogen base within its molecular structure.

TH10785 alters the repair process, which no longer requires APE1 but instead is dependent on polynucleotide kinase phosphatase (PNKP1) activity.

### References

Maurice Michel, et al. **Science**. 2022 Jun 24;376(6600):1471-1476.

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

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