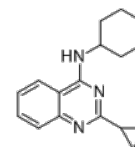


Product Name : TH10785
Cat. No. : PC-47083
CAS No. : 1002801-51-5
Molecular Formula : C₁₇H₂₁N₃
Molecular Weight : 267.376
Target : Other Targets
Solubility : 10 mM in DMSO



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!

E-mail: tech@probechem.com