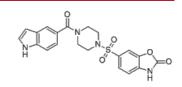


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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TH1760
Cat. No.	:	PC-38226
CAS No.	:	2567914-01-4
Molecular Formula	:	C ₂₀ H ₁₈ N ₄ O ₅ S
Molecular Weight	:	426.447
Target	:	DNA Repair Protein
Solubility	:	10 mM in DMSO



Biological Activity

TH1760 (TH 1760) is a first-in-class, potent, selective, cell-active **NUDT15** inhibitor with IC50 of 25 nM. TH1760 displays no significant interaction and/or inhibition againstother 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 μ M, 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! E-mail: tech@probechem.com