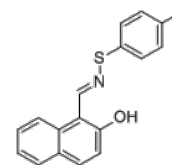


Product Name : COH34
Cat. No. : PC-72966
CAS No. : 906439-72-3
Molecular Formula : C₁₈H₁₅NOS
Molecular Weight : 293.384
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

COH34 (PARG inhibitor COH34, NSC191252) is a potent, selective and cell-active **PARG** inhibitor (IC₅₀=0.37 nM). COH34 specifically inhibits poly(ADP-ribose) glycohydrolase (PARG) and strongly binds to the catalytic domain of PARG with Asn869 as a key binding residue (K_d=0.547 μM), does not suppress the activity of PARP1 and had little impact on TARG1 at 1 μM.

COH34 suppresses the PARG-dependent dePARylation process, suppresses DNA repair in cells.

COH34 exhibits lethality in BRCA-mutant and PARP inhibitor-resistant cancer cells UWB1.289 and PEO-1 (EC₅₀=2.1 and 0.8 μM, respectively), selectively kills BRCA-mutant and PARP inhibitor-resistant cancer cells.

COH34 exhibits antitumor activity (at 20 mg/kg) in PARP inhibitor-resistant and DNA damage repair-defective cell line xenografts.

References

Shih-Hsun Chen, et al. *Sci Adv.* 2019 Apr 10;5(4):eaav4340.

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

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