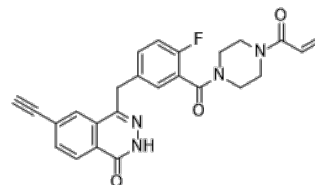


Product Name : DB008
Cat. No. : PC-26517
CAS No. : 2991637-98-8
Molecular Formula : C₂₅H₂₁FN₄O₃
Molecular Weight : 444.47
Target : PARP
Solubility : 10 mM in DMSO



CAS: 2991637-98-8

Biological Activity

DB008 is a selective, covalent **PARP16** inhibitor with IC₅₀ of 0.275 uM, covalently reacts with a non-conserved cysteine (Cys169, human numbering) in the NAD⁺ binding pocket of PARP16.

DB008 shows excellent selectivity profile among the MARYlating PARPs, with one of the prominent off-targets as PARP2 (IC₅₀=139 nM).

DB008 does not inhibit PARP1/2 in a covalent manner.

DB008 covalently modifies Cys169 of PARP16 and exhibits excellent proteome-wide selectivity in the irreversible binding mode.

DB008 stabilizes PARP16 levels during nutrient starvation.

References

Bejan DS, et al. *Chem Sci*. 2022 Nov 16;13(46):13898-13906.

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

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