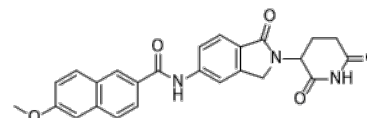


Product Name : DEG-35
Cat. No. : PC-23961
CAS No. : 2734910-37-1
Molecular Formula : C₂₅H₂₁N₃O₅
Molecular Weight : 443.46
Target : PROTAC
Solubility : 10 mM in DMSO



CAS: 2734910-37-1

Biological Activity

DEG-35 is a potent, cereblon-dependent, dual degrader of **IKZF2** (DC₅₀=4.4 nM, DC_{max}=92%) and casein kinase 1α (**CK1α**, DC₅₀=1.4 nM, DC_{max}=84%), shows leukemic cell killing activity.

DEG-35 efficiently degrades IKZF2 with limited activity against IKZF1, IKZF3 and IKZF4 in a Cullin-dependent manner.

DEG-35 inhibits growth activity in a panel of AML cell lines representing various oncogenic mutations with IC₅₀ values from single digit nM to low μM concentrations (MOLM-13 cell, IC₅₀=5.3 nM).

DEG-35 degrades dual targets IKZF2 and CK1α via Cullin-CRBN dependent pathway.

DEG-35 has higher affinity (K_D = 472.6 nM) than lenalidomide (K_D = 804.7 nM) for CRBN, as measured by HTR-FRET.

DEG-35 activates the p53 apoptosis pathway, activates IKZF2-dependent differentiation in MOLM-13 cells.

DEG-35 has preferential cytotoxic activity in AML cells compared to normal cells.

DEG-35 can degrade targets in AML cells in vivo and delay leukemia progression in the MLL-AF9 Crbn^{I391V} mice model.

References

Park SM, et al. *Cancer Cell*. 2023 Apr 10;41(4):726-739.e11.

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

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