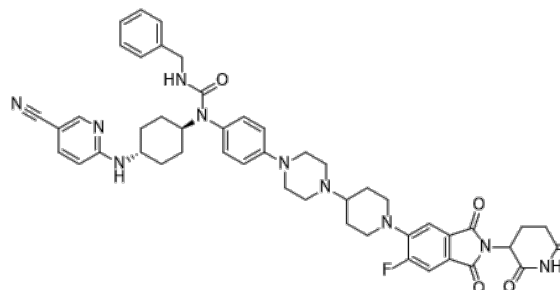


Product Name : ZLC491
Cat. No. : PC-23155
CAS No. : 3053716-46-1
Molecular Formula : C₄₈H₅₁FN₁₀O₅
Molecular Weight : 867.00
Target : PROTAC
Solubility : 10 mM in DMSO



CAS: 3053716-46-1

Biological Activity

ZLC491 is a potent, selective, and orally bioavailable **CDK12/13 PROTAC** degrader with DC50 values of 32 and 28 nM, respectively, in TNBC MDA-MB-231 cells.

ZLC491 selectively induces CDK12/13 degradation in a cereblon- and proteasome-dependent manner.

ZLC491 is able to deplete CDK12/13 in a concentration-dependent manner in other TNBC cells including HCC38 and MDA-MB-436 cells.

ZLC491 is highly selective for CDK12 over other CDKs.

ZLC491 effectively reduces DDR gene expression and potently inhibited TNBC cell growth alone or combined with DNA damaging agents or PARP inhibitors.

ZLC491 potently inhibits the growth of MDA-MB-231, HCC38, and MDA-MB-436 cells with IC50 values of 0.62, 0.19 and 0.12 μM, respectively.

ZLC491 (100-200 mg/kg, p.o.) depleted CDK12 and CDK13 proteins, induced apoptotic cell death in the tumors in MDA-MB-231 xenografts model.

References

Licheng Zhou, et al. *J Med Chem.* 2024 Oct 10. doi: 10.1021/acs.jmedchem.4c01596.

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

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