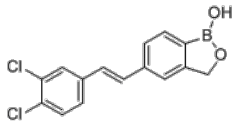
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	And1 inhibitor CH3
Cat. No.	:	PC-38504
CAS No.	:	2451028-69-4
Molecular Formula	:	$C_{15}H_{11}BCl_2O_2$
Molecular Weight	:	304.961
Target	:	DNA Repair Protein
Solubility	:	10 mM in DMSO



Biological Activity

And1 inhibitor CH3 is potent **acidic nucleoplasmic DNA-binding protein 1** (**And-1**) inhibitor, reducess And-1 expression level in IGROV1 cells with IC50 of 2.08 uM.
CH3 induces acidic nucleoplasmic DNA-binding protein 1 (And-1) degradation via the E3 ubiquitin ligase CUL4B-mediated proteasome degradation pathway.
CH3 promotes the interaction between And-1 and CUL4B by altering And-1 conformation.
CH3 exhibits the significant inhibition in a broad range of cancer cells in vitro and in vivo.
CH3 (20 mg/kg and 40 mg/kg) reduced tumor growth of ovarian IGROV1 and breast MCF7 xenografts at both treated doses.
CH3 also could overcome cisplatin resistance in ovarian cancer.
And1 is an important factor for deoxyribonucleic acid (DNA) replication and repair, is overexpressed in many types of cancer but not in normal tissues.

References

Jing Li, et al. ***Clin Transl Med***. 2021 Dec;11(12):e627.

E-mail: tech@probechem.com