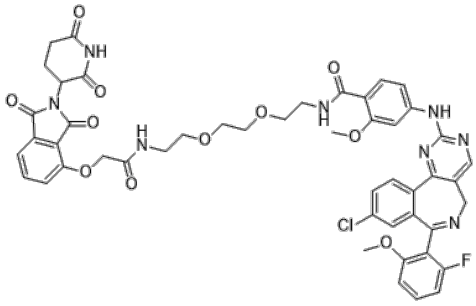
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JB170
Cat. No.	:	PC-24082
CAS No.	:	2705844-82-0
Molecular Formula	:	$C_{48}H_{44}ClFN_8O_{11}$
Molecular Weight	:	963.37
Target	:	PROTAC
Solubility	:	10 mM in DMSO



CAS: 2705844-82-0

Biological Activity

JB170 is a potent, highly selective PROTAC degrader of Aurora A with DC50 of 28 nM and Dmax of 300 nM in MV4-11 cells, linking alisertib to the cereblon-binding molecule Thalidomide.
JB170 selectively binds AURORA-A (EC50=193 nM) over AURORA-B (EC50=1.4 μM).
JB170 reduces AURORA-A levels by inducing proteolysis, induces AURORA-A ubiquitylation by CEREBLON followed by proteolysis via the proteasome.
JB170 induces S-phase arrest in in MV4-11 cells, induces apoptosis in cancer cells.

References

Adhikari B, et al. Nat Chem Biol. 2020;16(11):1179-1188.

E-mail: tech@probechem.com