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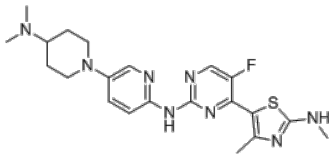
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CDDD2-94
Cat. No.	:	PC-72637
CAS No.	:	2078047-99-9
Molecular Formula	:	$C_{21}H_{27}FN_8S$
Molecular Weight	:	442.561
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



Biological Activity

CDDD2-94 (AU2-94) is a highly potent and selective **CDK4** inhibitor with Ki of 2 nM, >140-fold selective for CDK4 over CDK6 (Ki=279 nM).
CDDD2-94 is ineffective against other members of the CDK family, displays high selectivity against a panel of 369 human kinases at 1uM, with exceptionally selective-CLK, DYRKs and MYLK4 were the only kinases targeted potently.
CDDD2-94 is the most selective CDK4 inhibitor identified to date.
CDDD2-94 demonstrated antiproliferative activityagainst MV4-11 and MDA-MB-453 cell lines with GI50 of 0.107 and 0.325 uM respectively.
CDDD2-94 inhibits S780-phosphorylated Rb (pRb(S780)) and decreases transcription of Rb1 and E2F-target genes in MDA-MB-453 cells.
CDDD2-94 is well tolerated and efficacious in preclinical OC xenograft model, CDDD2-94 provides better safety profile than palbociclib towards the bone marrow.

References

Laychiluh Bantie, et al. ***Gynecol Oncol.*** 2020 Dec;159(3):827-838.

Solomon Tadesse, et al. ***Br J Pharmacol.*** 2018 Jun;175(12):2399-2413.

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

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