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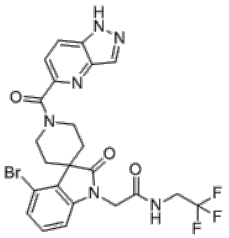
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	DDR1 inhibitor 2.45
Cat. No.	:	PC-35802
CAS No.	:	2125676-13-1
Molecular Formula	:	$C_{23}H_{20}BrF_3N_6O_3$
Molecular Weight	:	565.351
Target	:	Discoidin Domain Receptor (DDR)
Solubility	:	10 mM in DMSO



Biological Activity

DDR1 inhibitor 2.45 (Compound 2.45) is a novel potent, selective, bioavailable **Discoidin Domain Receptor 1 (DDR1)** inhibitor with IC50 of 29 nM, displays 64-fold selectivity over DDR2 in biochemical assays.
DDR1 inhibitor 2.45 also possesses excellent kinome selectivity against a kinase panel of 468 kinases.
DDR1 inhibitor 2.45 inhibits DDR1 phosphorylation (70% inhibition at 1 uM in HT1080 cells overexpressing DDR1) and recruitment of SHC1 in vitro, and modulates phenotype of collagen stimulated renal epithelial cells.
DDR1 inhibitor 2.45 preserves renal function and reduces tissue damage in Col4a3−/− mice (the preclinical mouse model of Alport syndrome).

References

Richter H, et al. ***ACS Chem Biol.*** 2018 Nov 19. doi: 10.1021/acschembio.8b00866.

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

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