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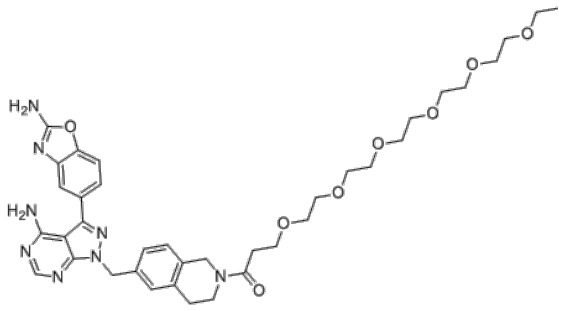
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	RMC-5552
Cat. No.	:	PC-49617
CAS No.	:	2382768-62-7
Molecular Formula	:	$C_{93}H_{136}N_{10}O_{24}$
Molecular Weight	:	1778.16
Target	:	mTOR
Solubility	:	10 mM in DMSO



Biological Activity

RMC-5552 (RMC5552) is a potent, selective bi-steric inhibitor of **mTORC1** with cellular IC50 of 0.48 nM for p4EBP1 inhibition, 40-fold selectivity over mTORC2.
RMC-5552 displays >53-fold selectivity over other lipid kinases.
Treament of RMC-5552 resulted in a dose-dependent, prolonged, and profound inhibition of tumor p4EBP1 levels up to 48 h in Michigan Cancer Foundation-7 (MCF-7) breast cancer cell line, which bears an activating mutation in the p110α catalytic subunit of Phosphoinositide 3-kinase (PIK3CAE545K).
RMC-5552 (10 mg/kg, ip, qw) reduced tumor volume in MCF-7 CDX models.

References

G Leslie Burnett, et al. ***J Med Chem.*** 2023 Jan 12;66(1):149-169.

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