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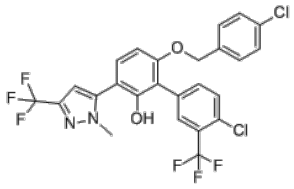
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MYCi975
Cat. No.	:	PC-73127
CAS No.	:	2289691-01-4
Molecular Formula	:	$C_{25}H_{16}Cl_2F_6N_2O_2$
Molecular Weight	:	561.31
Target	:	c-Myc
Solubility	:	10 mM in DMSO



Biological Activity

MYCi975 (NUCC-0200975) is a close analog of MYCi361 with improved therapeutic index, binds to **MYC** protein with KD of 2.5 uM, disrupts MYC/MAX complex formation.
MYCi975 (8 uM) enhances MYC degradation and phosphorylation on T58 in treated cells, also directly increases GSK3β-mediated MYC pT58 in the in vitro kinase assay at 6 uM.
MYCi975 inhibits MYC-dependent cancer cell viability and suppresses MYC transcriptional activity.
MYCi975 increases tolerability at significantly higher doses.
MYCi975 exhibits excellent pharmacokinetic profiles following p.o., i.p. or i.v. administration.
MYCi975 (100 mg/kg/day) inhibits tumor growth in MycCaP allografts with no changes in body weight.
MYCi975 synergized with Ara-C with no obvious impact in NSG mice bearing MV-411 AML xenografts.

References

Han H, et al. ***Cancer Cell.*** 2019 Nov 11;36(5):483-497.e15.

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