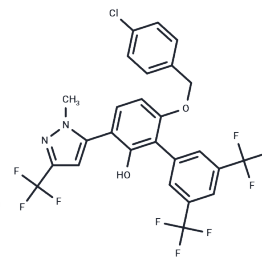


## MYCi361

## Chemical Properties

CAS No. :	2289690-31-7
Formula:	C <sub>26</sub> H <sub>16</sub> ClF <sub>9</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	594.86
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MYCi361 (NUCC-0196361) is an inhibitor of MYC (binding to MYC with K <sub>d</sub> of 3.2 μM).
Targets(IC50)	c-Myc
In vitro	MYCi361 is a small-molecule MYC inhibitors that inhibits the viability of MYC-dependent cancer cells including prostate cancer (MycCaP, LNCaP, and PC3), leukemia (MV4-11), lymphoma (HL-60 and P493-6), and neuroblastoma (SK-N-B2) with low-micromolar IC50 values[1].
In vivo	MYC inhibitor 361 (MYCi361), suppressed in vivo tumor growth in mice, increased tumor immune cell infiltration, upregulated PD-L1 on tumors, and sensitized tumors to anti-PD1 immunotherapy.
Animal Research	FVB or NSG male mice of 6-8 weeks of age and 25 g bearing established MycCaP tumors. MYCi361 treatment i.p. initially at 50 mg/kg twice daily for 2 days, then 70 mg/kg/day for 9 days

## Solubility Information

Solubility	DMSO: 100 mg/mL (168.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (5.55 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.6811 mL	8.4053 mL	16.8107 mL
5 mM	0.3362 mL	1.6811 mL	3.3621 mL
10 mM	0.1681 mL	0.8405 mL	1.6811 mL
50 mM	0.0336 mL	0.1681 mL	0.3362 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Han H, et al. Small-Molecule MYC Inhibitors Suppress Tumor Growth and Enhance Immunotherapy. *Cancer Cell*. 2019 Nov 11;36(5):483-497.e15.

Ram B M, Dai C. Detection of the DNA binding of transcription factors in situ at the single-cell resolution in cultured cells by proximity ligation assay. *STAR protocols*. 2023, 4(4): 102692.

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