MYCMI-6

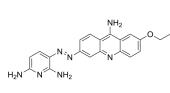
Cat. No.:	HY-124675		
CAS No.:	681282-09-7	7	
Molecular Formula:	C ₂₀ H ₁₉ N ₇ O		
Molecular Weight:	373.41		
Target:	c-Myc; Apop	otosis	
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Prep	aring k Solutions	1 mM	2.6780 mL	13.3901 mL	26.7802 mL
		5 mM	0.5356 mL	2.6780 mL	5.3560 mL
		10 mM			

BIOLOGICAL ACTIV	
Description	MYCMI-6 (NSC354961) is a potent and selective endogenous MYC:MAX protein interactions inhibitor. MYCMI-6 blocks MYC- driven transcription and binds selectively to the MYC bHLHZip domain with a K _d of 1.6 μM. MYCMI-6 inhibits tumor cell growth in a MYC-dependent manner (IC ₅₀ <0.5 μM). MYCMI-6 is not cytotoxic to normal human cells. MYCMI-6 induces apoptosis ^[1] .
In Vitro	MYCMI-6 (NSC354961) (6.25 μM; 48 hours) selectively suppresses MYC-driven tumor cell growth with high efficacy ^[1] . MYCMI-6 significantly inhibits growth of Burkitt's lymphoma cells (Mutu, Daudi and ST486) - another classical example of a MYC-driven tumor, having translocations of MYC to one of the immunoglobulin loci - in a dose-dependent manner with an average GI ₅₀ of 0.5 μM. Treatment of MCF7 cells with the MYCMI-6 for 24 hours significantly decreased MYC:MAX isPLA signals to 7%. Titration showed an IC ₅₀ for inhibition of MYC:MAX of less than 1.5 μM for MYCMI-6 by isPLA. MYCMI-6 inhibits the MYC:MAX heterodimer formation with an IC ₅₀ of 3.8 μM. MYCMI-6 efficiently inhibits anchorage-independent growth of MYCN -amplified neuroblastoma cells with GI ₅₀ values of <0.4 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]

Product Data Sheet



	Cell Line:	MYCN-amplified neuroblastoma cells (IMR-32, Kelly and SK-N-DZ), MYCN-non-amplified neuroblastoma cells (SK-N-F1, SK-N-AS and SK-N-RA)
	Concentration:	6.25 μΜ
	Incubation Time:	48 hours
	Result:	Reduced growth of the MYCN-amplified cell lines significantly stronger than the MYCN- non-amplified cell lines.
n Vivo		; daily for 1-2 weeks) induces massive apoptosis and reduces tumor cell proliferation, tumor
n Vivo	microvasculature densi	; daily for 1-2 weeks) induces massive apoptosis and reduces tumor cell proliferation, tumor ity and MYC:MAX interaction in a MYC-dependent xenograft tumor model ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
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n Vivo	microvasculature densi MCE has not independe	ity and MYC:MAX interaction in a MYC-dependent xenograft tumor model ^[1] . ently confirmed the accuracy of these methods. They are for reference only. 6-8 weeks old athymic nude mice (bearing MYCN-amplified SK-N-DZ neuroblastoma cells
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REFERENCES

[1]. Castell A, et al. A selective high affinity MYC-binding compound inhibits MYC:MAX interaction and MYC-dependent tumor cell proliferation. Sci Rep. 2018 Jul 3;8(1):10064.

Caution: Product has not been fully validated for medical applications. For research use only.

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