



上海源叶生物科技有限公司
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产品名称: MYCMI-6
CAS 号: 681282-09-7
产品货号: S89838

生物活性:

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 Kd of 1.6 μM. MYCMI-6 inhibits tumor cell growth in a MYC-dependent manner (IC50<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 小时) 高效地选择性抑制 MYC 驱动的肿瘤细胞生长[1]。 MYCMI-6 显著抑制伯基特淋巴瘤细胞的生长 (Mutu、Daudi 和 ST486)- MYC 驱动的肿瘤的另一个经典例子, MYC 以剂量依赖的方式易位到免疫球蛋白位点之一-平均 GI50 0.5 μM。用 MYCMI-6 处理 MCF7 细胞 24 小时后, MYC:MAX isPLA 信号显著降低至 7%。滴定显示 isPLA 抑制 MYC:MAX 的 IC50 对于 MYCMI-6 小于 1.5 μM。MYCMI-6 抑制 MYC:MAX 异二聚体形成, IC50 为 3.8 μM。MYCMI-6 有效抑制 MYCN 扩增的神经母细胞瘤细胞的贴壁非依赖性生长, GI50 值为 <0.4 μM[1]。 Cell Viability Assay[1] <table><tr><td>Cell Line:</td><td colspan="3">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)</td></tr><tr><td>Concentration:</td><td colspan="3">6.25 μM</td></tr><tr><td>Incubation Time:</td><td colspan="3">48 hours</td></tr><tr><td>Result:</td><td colspan="3">Reduced growth of the MYCN-amplified cell lines significantly stronger than the MYCN-non-amplified cell lines.</td></tr></table>				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 μM			Incubation Time:	48 hours			Result:	Reduced growth of the MYCN-amplified cell lines significantly stronger than the MYCN-non-amplified cell lines.			
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In Vivo	MYCMI-6 (20 mg/kg; 腹腔注射; 每日一次, 持续 1-2 周) 在 MYC 依赖性异种移植肿瘤模型中诱导大量细胞凋亡并降低肿瘤细胞增殖、肿瘤微血管密度和 MYC:MAX 相互作用[1]。 Animal Model: 6-8 weeks old athymic nude mice (bearing MYCN-amplified SK-N-DZ neuroblastoma cells)[1] <table><tr><td>Animal Model:</td><td colspan="3">6-8 weeks old athymic nude mice (bearing MYCN-amplified SK-N-DZ neuroblastoma cells)[1]</td></tr><tr><td>Dosage:</td><td colspan="3">20 mg/kg body weight</td></tr><tr><td>Administration:</td><td colspan="3">I.p.; daily for 1-2 weeks</td></tr><tr><td>Result:</td><td colspan="3">A dramatic increase in the extension of apoptotic areas in the tumors and a significant increase in non-proliferative areas as determined by Ki67 staining in tumors.</td></tr></table>				Animal Model:	6-8 weeks old athymic nude mice (bearing MYCN-amplified SK-N-DZ neuroblastoma cells)[1]			Dosage:	20 mg/kg body weight			Administration:	I.p.; daily for 1-2 weeks			Result:	A dramatic increase in the extension of apoptotic areas in the tumors and a significant increase in non-proliferative areas as determined by Ki67 staining in tumors.			
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Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 2.4 mg/mL (6.43 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO) <table><tr><td rowspan="4">Preparing Stock Solutions</td><td> Solvent / Mass / Concentration </td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>2.6780 mL</td><td>13.3901 mL</td><td>26.7802 mL</td></tr><tr><td>5 mM</td><td>0.5356 mL</td><td>2.6780 mL</td><td>5.3560 mL</td></tr><tr><td>10 mM</td><td>---</td><td>---</td><td>---</td></tr></table>				Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg	1 mM	2.6780 mL	13.3901 mL	26.7802 mL	5 mM	0.5356 mL	2.6780 mL	5.3560 mL	10 mM	---	---	---
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	* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80°C, 1 year; -20°C, 6 months。 -80°C 储存时，请在 1 年内使用， -20°C 储存时，请在 6 个月内使用。 动物实验： 以下溶解方案，请直接配制工作液。建议现用现配，在短期内尽快用完。 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比； 如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶。 方案 一 请依序添加每种溶剂： 0.5% CMC-Na/saline water Solubility: 5.56 mg/mL (14.89 mM); 悬浊液；超声助溶
参考文献	[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.

完整储备液配制表：

* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80°C, 1 year; -20°C, 6 months。 -80°C 储存时，请在 1 年内使用， -20°C 储存时，请在 6 个月内使用。

可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	2.6780 mL	13.3901 mL	26.7802 mL	66.9505 mL
	5 mM	0.5356 mL	2.6780 mL	5.3560 mL	13.3901 mL

源叶