



上海源叶生物科技有限公司
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产品名称: **AS8351**

CAS 号: **796-42-9**

产品货号: **S88714**

生物活性:

Description	AS8351 (NSC51355) 是一种 KDM5B 抑制剂, 可以诱导和维持有活性的染色质标记从而促进心肌细胞样细胞的产生。			
IC50 & Target	KDM5			
Cellular Effect	Cell Line	Type	Value	Description
	A549	IC ₅₀	2.2 μ M	Antiproliferative activity at human A549 cells after 72 hrs by MTT assay
	DMS-53	IC ₅₀	1.1 μ M	Antiproliferative activity at human DMS53 cells after 72 hrs by MTT assay
	HEL	EC ₅₀	0.06 μ g/mL	Antiviral activity against Human herpesvirus 1 strain KOS infected in human HEL cells assessed as inhibition of virus-induced cytopathicity
	HEL	EC ₅₀	0.14 μ g/mL	Antiviral activity against Vaccinia virus infected human HEL cells assessed as inhibition of virus-induced cytopathicity
	HEL	EC ₅₀	0.4 μ g/mL	Antiviral activity against Human herpesvirus 2 strain G infected human HEL cells assessed as inhibition of virus-induced cytopathicity
	HEL	EC ₅₀	0.4 μ g/mL	Antiviral activity against TK(-) aciclovir-resistant Human herpesvirus 1 strain KOS infected in human HEL cells assessed as inhibition of virus-induced cytopathicity
	HUVEC	IC ₅₀	20.1 μ M	Antiproliferative activity against HUVEC after 22 to 72 hrs by MTT assay
	HeLa	EC ₅₀	> 0.04 μ g/mL	Antiviral activity against Human coxsackievirus B4 infected human HeLa cells assessed as inhibition of virus-induced cytopathicity
	HeLa	EC ₅₀	> 0.04 μ g/mL	Antiviral activity against Respiratory syncytial virus infected human HeLa cells assessed as inhibition of virus-induced cytopathicity
	HeLa	EC ₅₀	> 0.04 μ g/mL	Antiviral activity against Vesicular stomatitis virus infected human HeLa cells assessed as inhibition of virus-induced cytopathicity
	MRC5	IC ₅₀	> 10 μ M	Antiproliferative activity at human MRC5 cells after 72 hrs by MTT assay
	MT4	CC ₅₀	0.1 μ g/mL	Cytotoxicity against Homo sapiens (human) MT4 cells
	MT4	EC ₅₀	> 0.1 μ g/mL	Antiviral activity against Human immunodeficiency virus 1 IIIB infected human MT4 cells assessed as inhibition of virus-induced cytopathicity
	MT4	EC ₅₀	> 0.1 μ g/mL	Antiviral activity against Human immunodeficiency virus type 2 (ISOLATE ROD) infected human MT4 cells



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				assessed as inhibition of virus-induced cytopathicity
	SK-N-MC	IC ₅₀	0.3 μM	Antiproliferative activity against human SK-N-MC cells
	SK-N-MC	IC ₅₀	0.3 μM	Antiproliferative activity against human SK-N-MC cells after 72 hrs by MTT assay
	SK-N-MC	IC ₅₀	0.5 μM	Antiproliferative activity against human SK-N-MC cells after 22 to 72 hrs by MTT assay
	SK-N-MC	IC ₅₀	0.5 μM	Antiproliferative activity against human SK-N-MC cells after 72 hrs by MTT assay
	SK-N-MC	IC ₅₀	0.59 μM	Antiproliferative activity against human SK-N-MC cells by MTT assay
	SK-N-MC	IC ₅₀	0.71 μM	Antiproliferative activity against human SK-N-MC cells after 72 hrs by MTT assay
	SK-N-MC	IC ₅₀	1 μM	Antiproliferative activity against human SK-N-MC cells after 96 hrs by MTT assay
	SK-N-MC	IC ₅₀	1.1 μM	Antiproliferative activity at human SK-N-MC cells after 72 hrs by MTT assay
	SK-N-MC	IC ₅₀	1.3 μM	Antiproliferative activity against human SK-N-MC cells after 72 hrs by MTT assay
	SK-N-MC	IC ₅₀	2.53 μM	Antiproliferative activity against human SK-N-MC cells after 72 hrs by MTS assay
	SK-N-MC	IC ₅₀	2.53 μM	Cytotoxicity against human SK-N-MC cells assessed as growth inhibition after 72 hrs by MTT assay
	Vero	EC ₅₀	> 0.8 μg/mL	Antiviral activity against Human coxsackievirus B4 infected Vero cells assessed as inhibition of virus-induced cytopathicity
	Vero	EC ₅₀	> 0.8 μg/mL	Antiviral activity against Human parainfluenza virus 3 infected Vero cells assessed as inhibition of virus-induced cytopathicity
	Vero	EC ₅₀	> 0.8 μg/mL	Antiviral activity against Mammalian orthoreovirus 1 infected Vero cells assessed as inhibition of virus-induced cytopathicity
	Vero	EC ₅₀	> 0.8 μg/mL	Antiviral activity against Punta Toro virus infected Vero cells assessed as inhibition of virus-induced cytopathicity
	Vero	EC ₅₀	> 0.8 μg/mL	Antiviral activity against Sindbis virus infected Vero cells assessed as inhibition of virus-induced cytopathicity
In Vitro	AS8351 通过与 α-酮戊二酸 (α-KG) 竞争螯合某些表观遗传酶中的铁 [Fe (II)] 来影响表观遗传修饰, 例如需要 α-KG 和铁的含有 JmJC 结构域的组蛋白去甲基化酶 (JmJC-KDM) 作为辅因子 [2]。			
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 150 mg/mL (514.93 mM; 超声加热助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)			



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Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg	
	1 mM	3.4329 mL	17.1644 mL	34.3289 mL	
	5 mM	0.6866 mL	3.4329 mL	6.8658 mL	
	10 mM	0.3433 mL	1.7164 mL	3.4329 mL	
*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, 2 years; -20°C, 1 year。-80°C 储存时，请在 2 年内使用， -20°C 储存时，请在 1 年内使用。 动物实验： 请根据您的 实验动物和给药方式 选择适当的溶解方案。 以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂： ——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 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： 10% DMSO → 40% PEG300 → 5% Tween-80 → 45% Saline Solubility: ≥ 2.5 mg/mL (8.58 mM); 澄清溶液 此方案可获得 ≥ 2.5 mg/mL（饱和度未知）的澄清溶液。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；再向上述体系中加入 50 μL Tween-80，混合均匀；然后再继续加入 450 μL 生理盐水 定容至 1 mL。 生理盐水的配制：将 0.9 g 氯化钠，溶解于 ddH₂O 并定容至 100 mL，可以得到澄清透明的生理盐水溶液。					
参考文献	[1]. Liu K, et al. Chemical Modulation of Cell Fate in Stem Cell Therapeutics and Regenerative Medicine. Cell Chem Biol. 2016 Aug 18;23(8):893-916. [2]. Cao N, et al. Conversion of human fibroblasts into functional cardiomyocytes by small molecules. Science. 2016 Jun 3;352(6290):1216-20.				
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, 2 years; -20° C, 1 year。-80° C 储存时，请在 2 年内使用， -20° C 储存时，请在 1 年内使用。					
可选溶剂	质量 / 溶剂体积 / 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	3.4329 mL	17.1644 mL	34.3289 mL	85.8222 mL
	5 mM	0.6866 mL	3.4329 mL	6.8658 mL	17.1644 mL
	10 mM	0.3433 mL	1.7164 mL	3.4329 mL	8.5822 mL
	15 mM	0.2289 mL	1.1443 mL	2.2886 mL	5.7215 mL
	20 mM	0.1716 mL	0.8582 mL	1.7164 mL	4.2911 mL



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	25 mM	0.1373 mL	0.6866 mL	1.3732 mL	3.4329 mL
	30 mM	0.1144 mL	0.5721 mL	1.1443 mL	2.8607 mL
	40 mM	0.0858 mL	0.4291 mL	0.8582 mL	2.1456 mL
	50 mM	0.0687 mL	0.3433 mL	0.6866 mL	1.7164 mL
	60 mM	0.0572 mL	0.2861 mL	0.5721 mL	1.4304 mL
	80 mM	0.0429 mL	0.2146 mL	0.4291 mL	1.0728 mL
	100 mM	0.0343 mL	0.1716 mL	0.3433 mL	0.8582 mL



源叶