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产品名称: **ML385**
产品别名: **ML385**

生物活性:					
Description	ML385 is a specific nuclear factor erythroid 2-related factor 2 (NRF2) inhibitor with an IC ₅₀ of 1.9 μM.				
IC ₅₀ & Target	IC50: 1.9 μM (NRF2)[1]				
In Vitro	ML385 interacts with NRF2 and affects the DNA binding activity of the NRF2-MAFG protein complex. The addition of ML385 decreases anisotropy in a dose-dependent manner, with an IC50 of 1.9 μM. A dose-dependent reduction in the NRF2 transcriptional activity is observed and the maximum inhibitory concentration is 5 μM by ML385. Treatment with ML385 leads to a significant reduction in NRF2 and downstream target gene expression selectively in KEAP1 mutant H460 cells. ML385 selectively affects the colony forming ability or growth of lung cancer cells with gain of NRF2 function[1].				
In Vivo	ML385 in combination with carboplatin leads to a significant reduction in tumor cell proliferation, demonstrated by fewer Ki-67 positive cells. Tumor samples treated with ML385 show a significant reduction in NRF2 protein level and its downstream target genes[1]. ML385 (intraperitoneal injection; 30 mg/kg; 7 days) weakens the therapeutic effects of MSC-Exo on inflammation-induced astrocytic activation in mice, and reduces reactive astrogliosis, NF-κB deactivation[3].				
	Animal Model:	8-week-old C57B/6 male mice[3]			
	Dosage:	30 mg/kg; 7 days			
	Administration:	Intraperitoneal injection			
	Result:	Reversed inhibition of MSC-Exo on hippocampal astrocytic activation in vivo.			
Solvent&Solubility	In Vitro: DMSO : ≥ 30 mg/mL (58.64 mM) H₂O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg
		1 mM	1.9547 mL	9.7735 mL	19.5469 mL
		5 mM	0.3909 mL	1.9547 mL	3.9094 mL
		10 mM	0.1955 mL	0.9773 mL	1.9547 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。 In Vivo: 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				



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	1.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (4.89 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (4.89 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Singh A, et al. Small Molecule Inhibitor of NRF2 Selectively Intervenes Therapeutic Resistance in KEAP1-Deficient NSCLC Tumors. ACS Chem Biol. 2016 Nov 18;11(11):3214-3225. [2]. Xinnong Liu, et al. Isoliquiritigenin ameliorates acute pancreatitis in mice via inhibition of oxidative stress and modulation of the Nrf2/HO-1 pathway. Oxid Med Cell Longev. 20 March 2018. [3]. Xian P, et al. Mesenchymal stem cell-derived exosomes as a nanotherapeutic agent for amelioration of inflammation-induced astrocyte alterations in mice. Theranostics. 2019 Aug 14;9(20):5956-5975.

源叶生物