



上海源叶生物科技有限公司
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产品名称: **CAY10602**
产品别名: **CAY10602**

生物活性:

Description	CAY10602 is a SIRT1 activator.				
IC ₅₀ & Target	SIRT1				
In Vitro	Compounds (including CAY10602/compound 1) with SIRT1-activating properties have a significant effect on fat mobilization in differentiated adipocytes, and these compounds (including CAY10602) have antiobesity and/or antidiabetic properties. Compounds (including CAY10602) with SIRT1 activating potential exert strong suppression of TNF-α release at concentrations between 20 and 60 μM[1].				
Solvent&Solubility	In Vitro: DMSO : 100 mg/mL (238.98 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		1 mM	2.3898 mL	11.9491 mL	23.8983 mL
		5 mM	0.4780 mL	2.3898 mL	4.7797 mL
		10 mM	0.2390 mL	1.1949 mL	2.3898 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, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 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 1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.97 mM, 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; 向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。 2.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (5.97 mM); Precipitated solution 此方案可获得 ≥ 2.5 mg/mL (5.97 mM, 饱和度未知) 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]. Nayagam VM, et al. SIRT1 modulating compounds from high-throughput screening as anti-inflammatory and insulin-sensitizing agents. J Biomol Screen. 2006 Dec;11(8):959-67.				

实验参考:



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Cell Assay	3T3L1 mouse fibroblasts and THP-1 leukemia cells are used and cultured following the supplier's recommendations. THP-1 cells are treated first with representative compounds (including CAY10602/compound 1) followed by addition of lipopolysaccharide(LPS). THP-1 cells are plated at a density of 1.2×10^6 cells/mL in 0.4 mL (0.5×10^6 cells/treatment) in 24-well culture plates. The cells are preincubated with representative test compounds (including CAY10602) at 2 concentrations (20 or 60 μ M) for 1 h under general tissue culture conditions[1].
References	[1]. Nayagam VM, et al. SIRT1 modulating compounds from high-throughput screening as anti-inflammatory and insulin-sensitizing agents. J Biomol Screen. 2006 Dec;11(8):959-67.



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