

产品名称: **SGC-CBP30**

产品别名: **SGC-CBP30**

生物活性:

Description	SGC-CBP30 is a potent and highly selective CBP/p300 bromodomain (Kds of 21 nM and 32 nM for CBP and p300, respectively) inhibitor, displaying 40-fold selectivity over the first bromodomain of BRD4 [BRD4(1)] bound. SGC-CBP30 strongly reduces secretion of IL-17A in Th17 cells and has anti-inflammatory effects[1][2][3].				
IC ₅₀ & Target	CBP/p300 bromodomain[1][3]				
In Vitro	In ankylosing spondylitis and psoriatic arthritis condition, SGC-CBP30 inhibits IL-17A secretion by Th17 cells. Transcriptional profiling of human T cells after SGC-CBP30 treatment shows a much more restricted effect on gene expression than that observed with the pan-BET (bromo and extraterminal domain protein family) bromodomain inhibitor JQ1[1].				
In Vivo	SGC-CBP30 treatment slightly alleviates alveolar bronchial fibrosis induced by NSC-125066. SGC-CBP30 plus CQ-061 dramatically reduces alveolar bronchial fibrosis. The ELISA of cytokines IL-4 and IFN-γ in BALF demonstrates that combination of SGC-CBP300 and CQ-061 suppresses the activation of IL-4 as well as IFN-γ in NSC-125066 induced IPF murine models to nearly normal levels[2].				
	Animal Model:	Sprague-Dawley (SD) rats (aged 3-4 weeks) injected with NSC-125066[2]			
	Dosage:	25 mg/kg			
	Administration:	Oral administration; daily; for 14 days			
	Result:	Slightly alleviated alveolar bronchial fibrosis induced by NSC-125066.			
Solvent&Solubility	In Vitro: DMSO : ≥ 31 mg/mL (60.90 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	1.9645 mL	9.8224 mL	19.6448 mL
		5 mM	0.3929 mL	1.9645 mL	3.9290 mL
		10 mM	0.1964 mL	0.9822 mL	1.9645 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				
	1.请依次添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (4.91 mM); Clear solution				
	此方案可获得 ≥ 2.5 mg/mL (4.91 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。				

	<p>2.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (4.91 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (4.91 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。</p> <p>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。</p>
References	<p>[1]. Hammitzsch A, et al. CBP30, a selective CBP/p300 bromodomain inhibitor, suppresses human Th17 responses. Proc Natl Acad Sci U S A. 2015 Aug 25;112(34):10768-73.</p> <p>[2]. Tao J, Inhibition of EP300 and DDR1 synergistically alleviates pulmonary fibrosis in vitro and in vivo. Biomed Pharmacother. 2018 Oct;106:1727-1733.</p> <p>[3]. Hay DA, et al. Discovery and optimization of small-molecule ligands for the CBP/p300 bromodomains. J Am Chem Soc. 2014 Jul 2;136(26):9308-19.</p>



源叶生物