



上海源叶生物科技有限公司  
Shanghai yuanye Bio-Technology Co., Ltd  
电话: 021-61312973 传真: 021-55068248  
网址: [www.shyuanye.com](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

产品名称: **Helioxanthin derivative 5-4-2**  
产品别名: 赛菊芋黄素衍生物; **Helioxanthin 5-4-2**

生物活性:				
Description	Helioxanthin derivative 5-4-2 is an analogue of helioxanthin, exhibits significant in vitro anti-HBV activity with EC <sub>50</sub> of 0.08 uM in HepG2.2.15 cells. IC <sub>50</sub> value: 0.08 uM (EC <sub>50</sub> ) [1][2] Target: Anti-HBV Helioxanthin derivative 5-4-2 had potent anti-HBV activities in HepG2.2.15 cells, with the EC <sub>50</sub> s of 1 and 0.08 microM, respectively. The lamivudine-resistant HBV, L526M/M550V double mutant strain, was also sensitive to helioxanthin and 5-4-2. This class of compounds not only inhibited HBV DNA, but also decreased HBV mRNA and HBV protein expression. The EC <sub>50</sub> of HBV DNA inhibition was consistent with the EC <sub>50</sub> of HBV 3.5 Kb transcript inhibition, which was 1 and 0.09 microM for helioxanthin and 5-4-2 respectively.			
Solvent&Solubility	<b>In Vitro:</b> DMSO : 50 mg/mL (143.96 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	2.8792 mL	14.3959 mL
	Stock Solutions	5 mM	0.5758 mL	2.8792 mL
		10 mM	0.2879 mL	1.4396 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。 <b>In Vivo:</b> 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 (7.20 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.20 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。				
References	[1]. Yeo H, et al. Synthesis and antiviral activity of helioxanthin analogues. J Med Chem. 2005 Jan 27;48(2):534-46. [2]. Li Y, et al. Inhibition of hepatitis B virus gene expression and replication by helioxanthin and its derivative. Antivir Chem Chemother. 2005;16(3):193-201.			