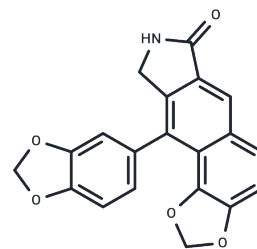


## Helioxanthin derivative 5-4-2

## Chemical Properties

CAS No. :	203935-39-1
Formula:	C <sub>20</sub> H <sub>13</sub> NO <sub>5</sub>
Molecular Weight:	347.32
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Helioxanthin derivative 5-4-2 (Helioxanthin 5-4-2) is an analogue of helioxanthin that shows anti-HBV activity in vitro and can be used to study HBV.
Targets(IC50)	HBV
In vitro	Helioxanthin and Helioxanthin derivative 5-4-2, which had potent anti-HBV activities in HepG2.2.15 cells, with the EC <sub>50</sub> s of 1 and 0.08 microM, respectively[2].

## Solubility Information

Solubility	DMSO: 30 mg/mL (86.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.76 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.8792 mL	14.3959 mL	28.7919 mL
5 mM	0.5758 mL	2.8792 mL	5.7584 mL
10 mM	0.2879 mL	1.4396 mL	2.8792 mL
50 mM	0.0576 mL	0.2879 mL	0.5758 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Yeo H, et al. Synthesis and antiviral activity of helioxanthin analogues. *J Med Chem.* 2005 Jan 27;48(2):534-46.

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.

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