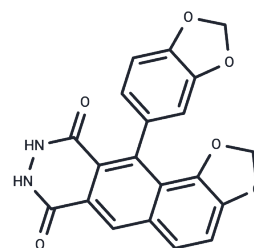


Helioxanthin 8-1

Chemical Properties

CAS No. :	840529-13-7
Formula:	C ₂₀ H ₁₂ N ₂ O ₆
Molecular Weight:	376.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Helioxanthin 8-1, an analogue of helioxanthin, exhibits significant in vitro anti-HBV/HCV/HSV-1/HIV activity with EC ₅₀ of >5/10/1.4/15 μM.
Targets(IC ₅₀)	Others,HBV
In vitro	The cyclic hydrazide 28(Helioxanthin 8-1) showed the most potent anti-HBV activity among those helioxanthin analogues tested. In addition, compound 28 exhibited moderately potent activity against HIV. It would therefore be promising to study helioxanthin analogues that contain a six-membered ring instead of the five-membered ring found in the lactam [1]. 8-1 exhibited effective inhibition on DHBV replication. The combination of 8-1 with 3TC resulted in the additional anti-DHBV activity. Viral induced cells displayed higher susceptibility to 8-1 treatment than non-induced cells. HBV X protein might not be an essential factor in the initiation of the biological activity of 8-1, as demonstrated by its absence in DHBV [2].

Solubility Information

Solubility	DMSO: 10 mg/mL (26.57 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: 1 mg/mL (2.66 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

	1mg	5mg	10mg
1 mM	2.6573 mL	13.2866 mL	26.5731 mL
5 mM	0.5315 mL	2.6573 mL	5.3146 mL
10 mM	0.2657 mL	1.3287 mL	2.6573 mL
50 mM	0.0531 mL	0.2657 mL	0.5315 mL

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.
Ying C, et al. Helioxanthin analogue 8-1 inhibits duck hepatitis B virus replication in cell culture. *Antivir Chem Chemother.* 2010;21(2):97-103.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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