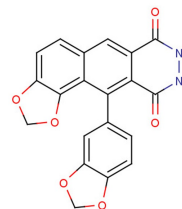


## Helioxanthin 8-1

## Chemical Properties

CAS No.:	840529-13-7
Formula:	C20H12N2O6
Molecular Weight:	376.32
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Helioxanthin 8-1, an analogue of helioxanthin, exhibits significant in vitro anti-HBV/HCV/HSV-1/HIV activity with EC50 of >5/10/1.4/15 µM.
Targets(IC50)	Others: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.657 mL	13.287 mL	26.573 mL
5 mM	0.531 mL	2.657 mL	5.315 mL
10 mM	0.266 mL	1.329 mL	2.657 mL
50 mM	0.053 mL	0.266 mL	0.531 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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