## Helioxanthin 8-1

Cat. No.:	HY-16680		
CAS No.:	840529-13-	7	
Molecular Formula:	$C_{20}H_{12}N_{2}O_{6}$		
Molecular Weight:	376.32		
Target:	HBV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

### SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	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		
	Please refer to the sol	solubility information to select the appropriate solvent.					
In Vivo		Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.66 mM); Clear solution					
	one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) /mL (2.66 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Unlinearthin 0.1 is an analogue of holioverthin, white a significant in vitre anti UDV/UCV/UCV/UCV/UCV/UCV
Description	Helioxanthin 8-1 is an analogue of helioxanthin, exhibites significant in vitro anti-HBV/HCV/HSV-1/HIV activity with EC50 of
	>5/10/1.4/15 uM.IC50 value: >5/10/1.4/15 uM(HBV/HCV/HSV-1/HIV) [1]Target: Antiviral agentThe cyclic hydrazide
	28(Helioxanthin 8-1) showed the most potent antiHBV 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 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].

# **Product** Data Sheet

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### CUSTOMER VALIDATION

- ACS Infect Dis. 2019 May 10;5(5):778-787.
- Microorganisms. 2021, 9(3), 471.

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#### REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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