Helioxanthin derivative 5-4-2

Cat. No.:	HY-16679			
CAS No.:	203935-39-1			
Molecular Formula:	C ₂₀ H ₁₃ NO ₅			
Molecular Weight:	347.32			
Target:	HBV			
Pathway:	Anti-infection			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 40% PEC g/mL (7.20 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			

DIOLOGICALACITY	
Description	Helioxanthin derivative 5-4-2 is an analogue of helioxanthin, exhibites significant in vitro anti-HBV activity with EC50 of 0.08 uM in HepG2.2.15 cells.IC50 value: 0.08 uM (EC50) [1][2]Target: Anti-HBVHelioxanthin derivative 5-4-2 had potent anti-HBV activities in HepG2.2.15 cells, with the EC50s 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 EC50 of HBV DNA inhibition was consistent with the EC50 of HBV 3.5 Kb transcript inhibition, which was 1 and 0.09 microM for helioxanthin and 5-4-2 respectively.

CUSTOMER VALIDATION

Product Data Sheet





• 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]. 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.

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

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