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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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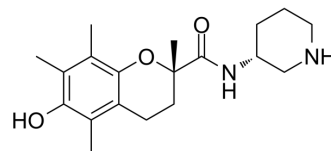
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Sonlicromanol

Cat. No.:	HY-121577		
CAS No.:	1541170-75-5		
Molecular Formula:	C ₁₉ H ₂₈ N ₂ O ₃		
Molecular Weight:	332.44		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (75.20 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	3.0081 mL	15.0403 mL	30.0806 mL
	5 mM	0.6016 mL	3.0081 mL	6.0161 mL
	10 mM	0.3008 mL	1.5040 mL	3.0081 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Sonlicromanol (KH176) is an orally active reactive oxygen species (ROS) modulator for the study in mitochondrial disease ^[1] [2].	
In Vivo	Sonlicromanol (KH176, 10 mg/kg, ip, twice daily) has promising, but independent and nonadditive, properties for the pharmacological treatment of CI-deficiency-related mitochondrial diseases ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Ndufs4 ^{-/-} mice ^[3] .

Dosage:	10 mg/kg.
Administration:	Twice daily by intraperitoneal injection.
Result:	Increased lifespan of <i>Ndufs4</i> ^{-/-} mice similar as KH176 and Clofibrate single treatment.

REFERENCES

- [1]. X Jiang, et al. Mechanism of action and potential applications of selective inhibition of microsomal prostaglandin E synthase-1-mediated PGE 2 biosynthesis by sonlicromanol's metabolite KH176m. *Sci Rep.* 2021 Jan 13;11(1):880.
- [2]. Zikai Feng, et al. Comparative In Vitro Toxicology of Novel Cytoprotective Short-Chain Naphthoquinones. *Pharmaceuticals (Basel)*. 2020 Aug 7;13(8):184.
- [3]. Sanne J C M Frambach, et al. Effects of clofibrate and KH176 on life span and motor function in mitochondrial complex I-deficient mice. *Biochim Biophys Acta Mol Basis Dis.* 2020 Jun 1;1866(6):165727.

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

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