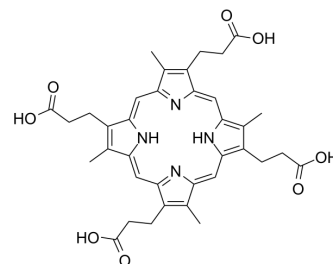


Coproporphyrin I

Cat. No.:	HY-113318		
CAS No.:	531-14-6		
Molecular Formula:	C ₃₆ H ₃₈ N ₄ O ₈		
Molecular Weight:	654.71		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (76.37 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.5274 mL	7.6370 mL	15.2739 mL
		5 mM		0.3055 mL	1.5274 mL	3.0548 mL
	10 mM		0.1527 mL	0.7637 mL	1.5274 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: ≥ 0.62 mg/mL (0.95 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Coproporphyrin I is an endogenous metabolite present in Urine and Blood that can be used for the research of Liver Disease and Porphyria ^{[1][2][3][4]} .
In Vitro	Endogenous metabolites is defined as those that are annotated by Kyoto Encyclopedia of Genes and Genomes as substrates or products of the ~1900 metabolic enzymes encoded in our genome. It is clear in the body of literature that there are documented toxic properties for many of these metabolites ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zuijderhoudt FM, et al. On accuracy and precision of a HPLC method for measurement of urine porphyrin concentrations. Clin Chem Lab Med. 2000 Mar;38(3):227-30.

[2]. Hindmarsh JT, et al. Biochemical differentiation of the porphyrias. Clin Biochem. 1999 Nov;32(8):609-19.

[3]. MAGNUS IA, et al. Erythropoietic protoporphyria. A new porphyria syndrome with solar urticaria due to protoporphyrinaemia. Lancet. 1961 Aug 26;2(7200):448-51.

[4]. Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. Oncogene. 2020 Aug;39(35):5709-5720.

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

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