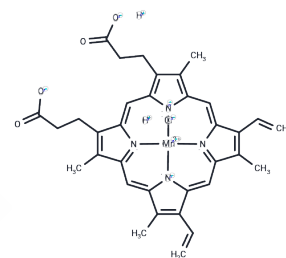


Mn(III) Protoporphyrin IX Chloride

Chemical Properties

CAS No. :	120389-54-0
Formula:	C ₃₄ H ₃₂ ClMnN ₄ O ₄
Molecular Weight:	651.03
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Mn(III) Protoporphyrin IX Chloride (Manganese(III) Protoporphyrin IX Chloride) is a metallated derivative of protoporphyrin IX, an experimental MRI relaxation enhancer.
Targets(IC50)	Others,ROS
In vitro	Mn(III) Protoporphyrin IX Chloride is a metalloporphyrin. At a concentration of 10 μM, it up-regulates the mRNA expression of the genes encoding δ-aminolevulinic acid synthase and heme oxygenase (HO), which are responsible for catalyzing the rate-limiting steps of heme biosynthesis and degradation, respectively, in chicken embryo hepatocytes. [1]

Solubility Information

Solubility	2 M NaOH: 8 mg/mL (12.29 mM),Sonication is recommended. 0.1 M Na ₂ CO ₃ : 4 mg/mL (6.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.536 mL	7.6801 mL	15.3603 mL
5 mM	0.3072 mL	1.536 mL	3.0721 mL
10 mM	0.1536 mL	0.768 mL	1.536 mL
50 mM	0.0307 mL	0.1536 mL	0.3072 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pan D, et al. Ligand-directed nanobialys as theranostic agent for drug delivery and manganese-based magnetic resonance imaging of vascular targets. J Am Chem Soc. 2008 Jul 23;130(29):9186-7.

Cable EE, et al. Differential effects of metalloporphyrins on messenger RNA levels of delta-aminolevulinate synthase and heme oxygenase. Studies in cultured chick embryo liver cells. J Clin Invest. 1994 Aug;94(2):649-54.

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