

Mg(II) protoporphyrin IX

Chemical Properties

CAS No. :	14947-11-6
Formula:	C ₃₄ H ₃₂ MgN ₄ O ₄
Molecular Weight:	584.96
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Mg(II) protoporphyrin IX is a key intermediate in chlorophyll biosynthesis in Chlorella and acts as a negative regulator of nuclear photosynthetic gene expression, while serving as an important experimental molecule for dissecting plastid-to-nucleus retrograde signaling pathways in plant and algal biology.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 8 mg/mL (13.68 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	1.7095 mL	8.5476 mL	17.0952 mL
5 mM	0.3419 mL	1.7095 mL	3.419 mL
10 mM	0.171 mL	0.8548 mL	1.7095 mL
50 mM	0.0342 mL	0.171 mL	0.3419 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

- GRANICK S. Magnesium protoporphyrin as a precursor of chlorophyll in Chlorella. J Biol Chem. 1948;175(1):333-342.
- Pontier D, et al. Knock-out of the magnesium protoporphyrin IX methyltransferase gene in Arabidopsis. Effects on chloroplast development and on chloroplast-to-nucleus signaling. J Biol Chem. 2007;282(4):2297-2304.

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