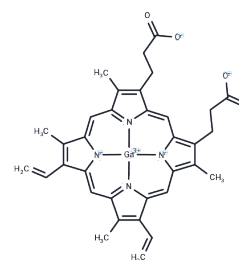


Ga(III) protoporphyrin IX

Chemical Properties

CAS No. :	222556-71-0
Formula:	C ₃₄ H ₃₁ GaN ₄ O ₄
Molecular Weight:	629.36
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	Ga(III)protoporphyrin-IX, a model for interporphyrin interactions in malaria pigment, possesses potent antibacterial effects against gram-negative, gram-positive, and acid-fast bacteria. It exhibits high solubility in methanol (MeOH) and serves as a malarial pigment analogue for drug development, as well as a potential antibacterial agent.
Targets(IC50)	Others,Antibacterial
In vitro	Ga(III)protoporphyrin-IX effectively binds to heme-containing proteins and enzymes in the cellular growth medium of the Gram-positive bacteria Enterococcus faecalis, which does not rely on heme for cell growth. This compound serves as a promising mimic of heme, offering potential for heme replacement/substitution applications[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5889 mL	7.9446 mL	15.8892 mL
5 mM	0.3178 mL	1.5889 mL	3.1778 mL
10 mM	0.1589 mL	0.7945 mL	1.5889 mL
50 mM	0.0318 mL	0.1589 mL	0.3178 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

Pinter TB, et al. Spectroscopic and theoretical studies of Ga(III)protoporphyrin-IX and its reactions with myoglobin. Inorg Chem. 2012;51(6):3743-3753.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481