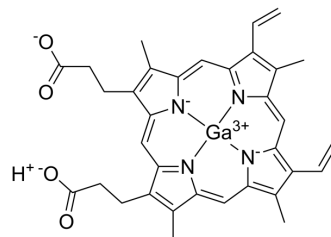


Ga(III) protoporphyrin IX

Cat. No.:	HY-136476D
CAS No.:	222556-71-0
Molecular Formula:	C ₃₄ H ₃₁ GaN ₄ O ₄
Molecular Weight:	629.36
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ga(III)protoporphyrin-IX is a model for the key interporphyrin interactions in malaria pigment. Ga(III)protoporphyrin-IX acts as a potent antibacterial against gram-negative, gram-positive, and acid-fast bacteria. Ga(III)protoporphyrin-IX is readily soluble in methanol (MeOH). Ga(III)protoporphyrin IX are as malarial pigment analogues for agent development and as potential antibacterial agents ^[1] .
In Vitro	Ga(III)protoporphyrin-IX has also been shown to bind to heme containing proteins and enzymes when it is included in the cellular growth medium of the Grampositive bacteria Enterococcus faecalis which does not depend on heme for cell growth. Ga(III)protoporphyrin-IX has shown to be a suitable mimic of heme and has potential applications in heme replacement/substitution ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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

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