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Pure and (not so) simple

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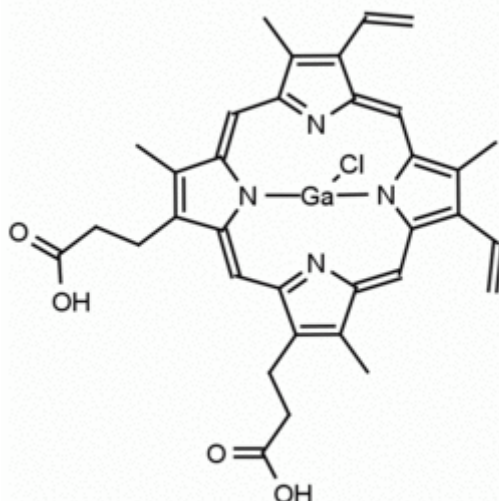
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Technical Data Sheet
Catalog Number: **P40167**

For research use only
Not intended or approved for
diagnostic or therapeutic use.

Product Name: Ga(III) Protoporphyrin IX Chloride

Catalog Number: P40167



Sizes Available: 50 mg, 100 mg, 250 mg, and larger sizes available

Molecular weight: 665.82 g/mol

Molecular Formula: $C_{34}H_{32}ClGaN_4O_4$

CAS Number: 210409-12-4

Storage: Store at room temperature, protect from light

Synonyms: GA(III) PROTOPORPHYRIN IX CHLORIDE, 210409-12-4, J-013791

Field of Interest: Semi-synthetic porphyrin, Bioactive, Photosensitizer, Antibacterial,
Model of Malaria Pigment

Background: Ga(III) Protoporphyrin IX Chloride is a gallium analogue of heme and is active against biofilms, and is a biomimetic of malaria based enzymatic systems. ^{1,2}

References:

- 1) Chang, David, Garcia, Rebecca A., Akers, Kevin S., Mende, Katrin, Murray, Clinton K., Wenke, Joseph C., Sanchez, Carlos J., Jr., Activity of gallium meso- and protoporphyrin ix against biofilms of multidrug-resistant *Acinetobacter baumannii* isolates, *Pharmaceuticals* (2016), 9(1), 16/1-16/16. DOI:10.3390/ph9010016.
- 2) Bohle, D. Scott, Dodd, Erin L., Pinter, Tyler B. J., Stillman, Martin J., Soluble Diamagnetic Model for Malaria Pigment: Coordination Chemistry of Gallium(III)protoporphyrin-IX, *Inorganic Chemistry* (2012), 51(20), 10747-10761. DOI:10.1021/ic301106g

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS on request. **Ga(III) Protoporphyrin IX Chloride** is manufactured, shipped according to standard practices, and intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

Warranty and Disclaimer: Frontier Specialty Chemicals, Inc. warrants the product conforms to the specifications stated herein. In the event of nonconformity, Frontier will replace products or refund purchase price, at its sole option, and Frontier shall not be responsible for any other loss or damage, whether known or foreseeable to Frontier. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Frontier assumes no responsibility therefore, including success of purchaser's research and development, or health or safety of any uses of the product.