



CERTIFICATE OF ANALYSIS

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1. Identification

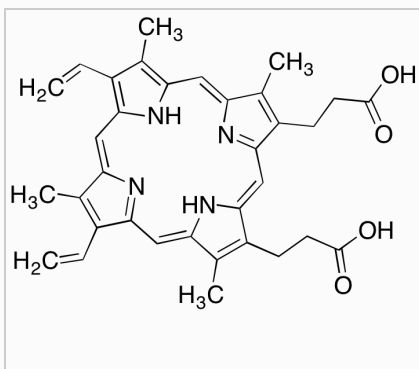
Catalogue Number: P839138

CAS Number: 553-12-8

Product: Protoporphyrin-9

Synonym: Protoporphyrin IX; 7,12-Diethenyl-3,8,13,17-tetramethyl-21H,23H-porphine-2,18-dipropionic Acid; Kammerer's Porphyrin; Levulan; NSC 177389; NSC 2632; Ooporphyrin; Protoporphyrin

Structure:



Molecular Formula:

C₃₄H₃₄N₄O₄

Molecular weight:

562.66

Source of Product:

N/A

Solubility:

DMSO (Very Slightly),
Methanol (Very Slightly)

Lot Number: 2022-JPO-035

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Black Solid	Black Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	97.14% (400 nm)
MS	Conforms to Structure	Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Chanell Chu	11/28/2022	11/26/2026