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## Certificate of Analysis

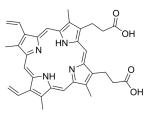
### **Protoporphyrin IX**

Cat. No.:	HY-B1247
CAS No.:	553-12-8
Batch No.:	291583
Chemical Name:	21H,23H-Porphine-2,18-dipropanoic acid, 7,12-diethenyl-3,8,13,17-tetramethyl-

#### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C <sub>34</sub> H <sub>34</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	562.66
Storage:	4°C, protect from light, stored under nitrogen
	* In solvent : -80°C, 1 years; -20°C, 6 months (protect from light, stored under nitrogen)

#### **Chemical Structure:**



#### **ANALYTICAL DATA**

Appearance:	Brown to black (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (HPLC):	98.46%
Conclusion:	The product has been tested and complies with the given specifications.

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

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