

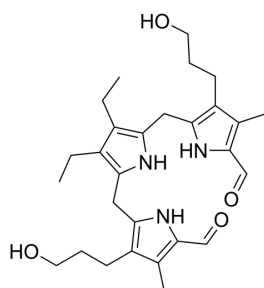
## Porphyrin precursor

Cat. No.: HY-117544  
CAS No.: 149365-62-8  
Batch No.: 388232  
Chemical Name: 1H-Pyrrole-2-carboxaldehyde, 5,5'-[(3,4-diethyl-1H-pyrrole-2,5-diyl)bis(methylene)]bis[4-(3-hydroxypropyl)-3-methyl-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{28}H_{39}N_3O_4$   
Molecular Weight: 481.63  
Storage: Powder -20°C 3 years  
In solvent -80°C 6 months  
-20°C 1 month

Chemical Structure:



### ANALYTICAL DATA

Appearance: Light brown to brown (Solid)  
 $^1H$  NMR Spectrum: Consistent with structure  
MS: Consistent with structure  
Purity (NMR):  $\geq 95.0\%$   
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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