PRODUCT INFORMATION

N-methyl Protoporphyrin IX
Item No. 20846

CAS Registry No.: 79236-56-9
Formal Name: 7,12-diethenyl-3,8,13,17,23-pentamethyl-21H,23H-porphine-2,18-dipropanoic acid
Synonyms: NMPP, N-methyl PPIX
MF: C_{35}H_{36}N_{4}O_{4}
FW: 576.7
Purity: ≥95% (a mixture of isomers)
UV/Vis.: \( \lambda_{\text{max}} \): 211, 303, 401, 573 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

N-methyl Protoporphyrin IX (N-methyl PPIX) is supplied as a crystalline solid. A stock solution may be made by dissolving the N-methyl PPIX in the solvent of choice. N-methyl PPIX is soluble in organic solvents such as methanol and acetone, which should be purged with an inert gas.

Description

N-methyl PPIX is a transition state analog that potently inhibits protoporphyrin IX ferrochelatase (\( K_i = 10 \) nM), blocking the terminal step of the heme biosynthetic pathway.\(^1,2\) It is used to study the effect of heme synthesis blockade in cell systems.\(^3,4\)

References