FeTPPS
Item No. 17187

CAS Registry No.: 90384-82-0
Formal Name: Fe(III)5,10,15,20-tetrakis
(4-sulfonatophenyl)porphyrinato chloride
MF: C_{44}H_{24}ClFeN_{4}O_{12}S_{4} • 4H
FW: 1,024.3
Purity: ≥95%
UV/Vis.: λ_{max} 394 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

FeTPPS is supplied as a crystalline solid. A stock solution may be made by dissolving the FeTPPS in water. The solubility of FeTPPS in water is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Peroxynitrite (Item No. 81565) is a highly reactive nitrogen species formed from the reaction of nitric oxide (NO) and superoxide. FeTPPS is a ferric porphyrin complex that causes the decomposition of peroxynitrite by catalytic isomerization to produce nitrate both in vitro and in vivo. The conversion of this reactive nitrogen species to nitrate results in cytoprotection (EC_{50} = 5 µM). FeTPPS does not complex with NO and does not alter superoxide directly. It is commonly used to elucidate the roles of peroxynitrite in oxidative stress, cell damage, and intracellular signaling.

References