# **PRODUCT** INFORMATION



## **FeTMPyP**

Item No. 75854

CAS Registry No.:	133314-07-5	$\backslash$
Formal Name:	[[4,4',4'',4'''-(21H,23H-	+N/
	porphine-5,10,15,20-tetrayl-	
	$\kappa N^{21}, \kappa N^{22}, \kappa N^{23}, \kappa N^{24})$ tetrakis[1-	
	methylpyridiniumato]](2-)]-	N N
	lron(5+), pentachloride	
MF:	C <sub>44</sub> H <sub>36</sub> FeN <sub>8</sub> • 5Cl	N
FW:	909.9	
Purity:	≥98%	N N
UV/Vis.:	λ <sub>max</sub> : 424 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	+N // N+
Stability:	≥4 years	

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

### Laboratory Procedures

FeTMPyP is supplied as a crystalline solid. Aqueous solutions of FeTMPyP can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of FeTMPyP in 0.1 M Tris-HCl buffer (1 mM EDTA, pH 9.0) is approximately 12 mg/ml and approximately 10.1 mg/ml in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

### Description

FeTMPyP is a synthetic porphyrin complexed with iron which acts as a peroxynitrite decomposition catalyst. The rate constant for decomposition of peroxynitrite by FeTMPyP 2.2 x 10<sup>6</sup> M<sup>-1</sup>s<sup>-1</sup> with a turnover number of  $360 \pm 170 \text{ s}^{-1.1}$  The predominant product (>90%) of this reaction is nitrate, with a minor amount of nitrite also formed (~6%), at pH 7.4.1

#### Reference

1. Stern, M.K., Jensen, M.P., and Kramer, K. Peroxynitrite decomposition catalysts. J. Am. Chem. Soc. 118(36), 8735-8736 (1996).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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