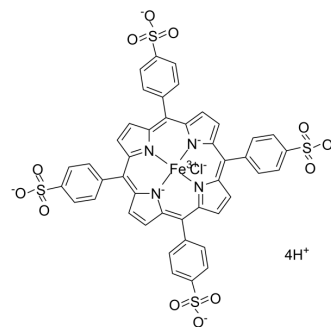


FeTPPS

Cat. No.:	HY-131697		
CAS No.:	90384-82-0		
Molecular Formula:	C ₄₄ H ₂₈ ClFeN ₄ O ₁₂ S ₄		
Molecular Weight:	1024.27		
Target:	NO Synthase; Apoptosis		
Pathway:	Immunology/Inflammation; Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 10 mg/mL (9.76 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.9763 mL	4.8815 mL	9.7631 mL
5 mM	0.1953 mL	0.9763 mL	1.9526 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

FeTPPS, a 5,10,15,20-tetrakis (4-sulfonatophenyl) porphyrin iron III chloride peroxynitrite decomposition catalyst, possesses evident neuroprotective effects in a experimental model of spinal cord damage^[1]. FeTPPS acts as a peroxynitrite scavenger and anti-nitrating agent in vivo. FeTPPS reduces nitric oxide (NO) production and apoptosis process [2].

In Vitro

FeTPPS acts as an effective pro-oxidant towards appreciable substrates in vitro in the presence of oxidant. FeTPPS protects cells against oxidative damage induced by H₂O₂, generated by Glucose (G)-glucose oxidase (GO) system^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[2]

Cell Line:	Human hepatocellular carcinoma (HepG2)
Concentration:	5, 10, 15, 20, 25 μM
Incubation Time:	Treated 12 h before being exposed to H ₂ O ₂

Result:

Could protect cells against oxidative damage induced by H₂O₂.

REFERENCES

- [1]. Giuseppe Bruschetta, et al. FeTPPS Reduces Secondary Damage and Improves Neurobehavioral Functions after Traumatic Brain Injury. *Front Neurosci.* 2017 Feb 7;11:6.
- [2]. Pengfei Zhang, et al. Study on the detoxification mechanisms to 5,10,15,20-tetrakis (4-sulfonatophenyl) porphyrinato iron(III) chloride (FeTPPS), an efficient pro-oxidant of heme water-soluble analogue. *J Inorg Biochem.* 2018 Dec;189:40-52.
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Caution: Product has not been fully validated for medical applications. For research use only.

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