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Print Date: Jan 8th 2016

Certificate of Analysis

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Product Name: **Zinc protoporphyrin IX** **Catalog No.: 0746** **Batch No.: 5**

CAS Number: 15442-64-5 EC Number: 239-455-7

IUPAC Name: 7,12-Diethenyl-3,8,13,17-tetramethyl-21*H*,23*H*-porphine-2,18-dipropionic acid, zinc complex

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{34}H_{32}N_4O_4Zn$

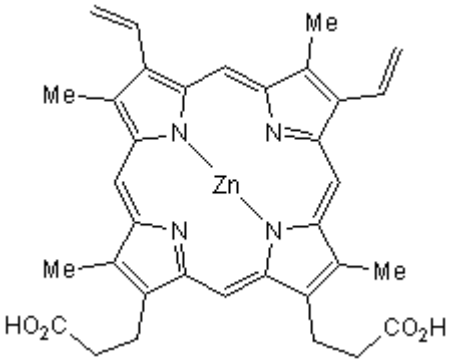
Batch Molecular Weight: 626.03

Physical Appearance: Brown solid

Solubility: DMSO to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.23	5.15	8.95
Found	64.97	5.2	8.96

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Description:

Inhibitor of heme oxygenase, which generates the putative neurotransmitter CO.

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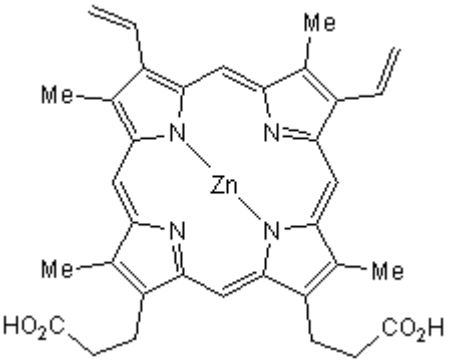

Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Brune and Ullrich (1987) Inhibition of platelet aggregation by carbon monoxide is mediated by activation of guanylate cyclase. Mol.Pharmacol. ***32*** 497. PMID: 2890093.

Verma *et al* (1993) Carbon monoxide a putative neural messenger. Science ***259*** 381. PMID: 7678352.

Luo and Vincen (1994) Metalloporphyrins inhibit nitric oxide-dependent cGMP formation *in vivo*. Eur.J.Pharmacol. ***267*** 263. PMID: 7522180.

Grundemar and Ny (1997) Pitfalls using metalloporphyrins in carbon monoxide research. TiPS ***18*** 193. PMID: 9226997.