

Product Name: TMPyP4 tosylate

Catalog No.: 4253

Batch No.: 2

CAS Number: 36951-72-1

IUPAC Name: 5,10,15,20-Tetrakis(1-methylpyridinium-4-yl)porphyrin tetra(*p*-toluenesulfonate)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₂H₆₆N₈O₁₂S₄·1¼H₂O

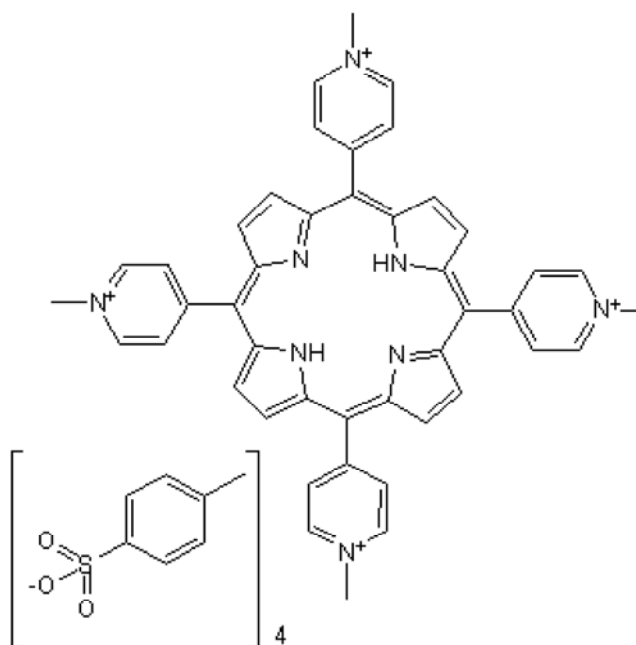
Batch Molecular Weight: 1395.12

Physical Appearance: Purple solid

Solubility: water to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.99	5.02	8.03
Found	61.65	4.93	7.86

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

TMPyP4 tosylate is a cationic porphyrin; inhibits human telomerase. Stacks with G tetrads to stabilize quadruplex DNA. Inhibits cell proliferation and induces cell death in three myeloma cell lines. Activity results in telomere shortening at concentrations between 1 and 5 μM.

Physical and Chemical Properties:

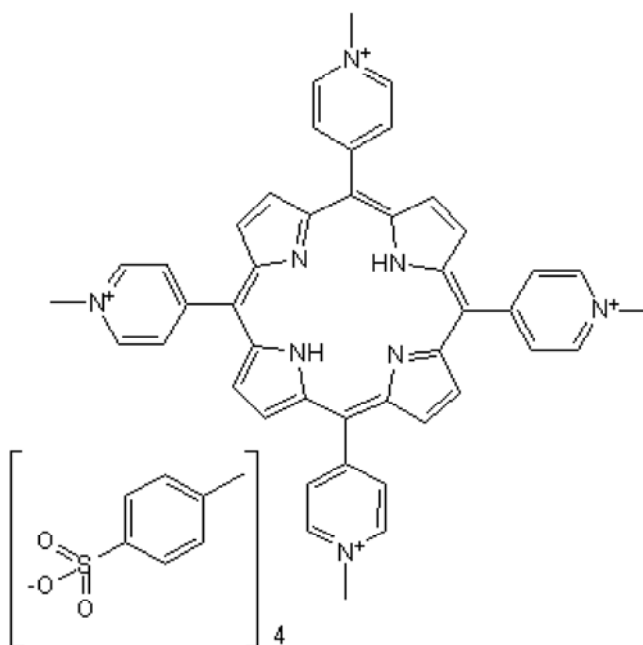
Batch Molecular Formula: C₇₂H₆₆N₈O₁₂S₄·1.34H₂O

Batch Molecular Weight: 1395.12

Physical Appearance: Purple solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water 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:

Shammas *et al* (2003) Telomerase inhibition and cell growth arrest by G-quadruplex interactive agent in multiple myeloma. *Mol.Cancer Ther.* **2** 825. PMID: 14555701.

Shi *et al* (2001) Quadruplex-interactive agents as telomerase inhibitors: synthesis of porphyrins and structure-activity relationship for the inhibition of telomerase. *J.Med.Chem.* **474** 4509.

Rha *et al* (2000) Effect of telomere and telomerase interactive agents on human tumor and normal cell lines. *Clin.Cancer Res.* **6** 987. PMID: 10741725.

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