

## 5,10,15,20-Tetrakis(p-tolyl)porphyrin

## Chemical Properties

CAS No. :	14527-51-6
Formula:	C <sub>48</sub> H <sub>38</sub> N <sub>4</sub>
Molecular Weight:	670.842
Storage:	Keep away from direct sunlight, Store under nitrogen Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	5,10,15,20-Tetrakis(p-tolyl)porphyrin (TTP) is an organic compound classified within the porphyrin family, characterized by a cyclic structure formed from four pyrrole rings. TTP is a synthetic porphyrin commonly employed as a sensitizer in dye-sensitized solar cells and as a catalyst in various organic reactions. Owing to its unique structure, TTP exhibits a range of intriguing properties, including specific wavelength absorption and potential as a catalyst for different chemical reactions. In dye-sensitized solar cells, TTP aids in converting sunlight into electrical energy by absorbing photons and transferring electrons to the device's semiconductor layer. In organic chemistry, TTP is frequently utilized as a catalyst for reactions such as oxidation and reduction, selectively binding to certain substrates, making it a valuable tool for synthesizing complex molecules and studying their properties.
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4907 mL	7.4533 mL	14.9067 mL
5 mM	0.2981 mL	1.4907 mL	2.9813 mL
10 mM	0.1491 mL	0.7453 mL	1.4907 mL
50 mM	0.0298 mL	0.1491 mL	0.2981 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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