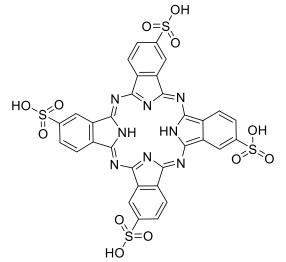


# Product Name: Phthalocyanine tetrasulfonic acid Mixture of regioisomers

Catalog Number: PcS-834



Sizes Available: 250 mg, 1 g, and larger sizes available

Molecular weight: 834.8 g/mol

Molecular Formula: C<sub>32</sub>H<sub>18</sub>N<sub>8</sub>O<sub>12</sub>S<sub>4</sub>

CAS Number: 33308-41-7

**Storage:** Store at room temperature and protect from light.

## Synonyms:

Phthalocyanine tetrasulfonic acid, 11-Phthalocyaninesulfonic acid, 33308-41-7 2,11,20,29,37,38,39,40-Octazanonacyclo[28.6.1.13,10.112,19.121,28.04,9.013,18.022,27.031,36] tetraconta-1,3,5,7,9,11,13(18),14,16,19(39),20,22(27),23,25,28,30(37),31(36), 32,34-nonadecaene-6,15,24,33-tetrasulfonic acid, 19497-02-0, SCHEMBL6247318, CHEMBL1331939, NCGC00165867-01,

### 29H,29H,31H-Phthalocyanine-C,C,C,C-tetrasulfonic acid

### Field of Interest: Prions, Amyloid, alpha-synuclein, Sensors

**Background: Phthalocyanine tetrasulfonic acid Mixture of regioisomers** has been used as an optical sensor for copper ions<sup>1</sup>. phthalocyanine tetrasulfonic acid suppress the formation of fibrous amyloid formation of alpha-synuclein<sup>2</sup>. phthalocyanine tetrasulfonic acid possesses anti-scrapie activity in mice<sup>3</sup>.

#### **References:**

- Kumawat, L.K., Mergu, N., Singh, A.K., Gupta, V.K.; A novel optical sensor for copper ions based on phthalocyanine tetrasulfonic acid. Sensors and Actuators B: Chemical 2015, 212, 389-394. https://doi.org/10.1016/j.snb.2015.02.027
- Lee, E., Cho, H., Lee, C., Lee, D., Chung, K.C., Paik, S.R.; Phthalocyanine tetrasulfonates affect the amylod formation and cytotoxicity of alpha-synuclein. *Biochemistry* 2004, 43, 3704-3715. https://doi.org/10.1021/bi0356707
- Priola, S.A., Raines, A., Caughey, W.; Prophylactic and therapeutic effects of phthalocyanine tetrasulfonate in scrapie-infected mice. *The Journal of Infectious Diseases* 2003, *188*, 699-705. https://doi.org/10.1086/377310

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS on request. Phthalocyanine tetrasulfonic acid Mixture of **regioisomers** is manufactured, shipped according to standard practices, and intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

**Warranty and Disclaimer:** Frontier Specialty Chemicals, Inc. warrants the product conforms to the specifications stated herein. In the event of nonconformity, Frontier will replace products or refund purchase price, at its sole option, and Frontier shall not be responsible for any other loss or damage, whether known or foreseeable to Frontier. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Frontier assumes no responsibility therefore, including success of purchaser's research and development, or health or safety of any uses of the product.