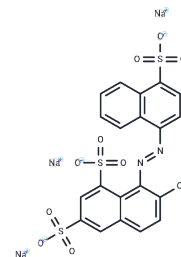


Ponceau 4R

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2611-82-7 |
| Formula: | C ₂₀ H ₁₁ N ₂ Na ₃ O ₁₀ S ₃ |
| Molecular Weight: | 604.46 |
| Appearance: | Solid |
| Storage: | keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|---------------|--|
| Description | Ponceau 4R (Acid Red 18) is a synthetic strawberry red azo dye that is a food colorant dye used in a variety of food products. It is stable to light, heat and acid, but fades in the presence of ascorbic acid. It is usually synthesized from aromatic hydrocarbons. |
| Targets(IC50) | Others |
| In vitro | Tissue Staining: 1. prepare a staining solution for Ponceau 4R (usually in water or an appropriate buffer at a concentration of 0.1%-1%). 2. for staining of tissue sections or certain biological samples, after which the stain is rinsed with an appropriate solution to remove background staining. 3. protein electrophoresis or immunoblotting experiments: under certain circumstances, Ponceau 4R may be used as a dye to detect protein bands, but is less commonly used for routine immunoblotting (WB) because its azo dye properties may interfere with certain experimental analyses." |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: 22.5 mg/mL (37.22 mM), Sonication is recommended. DMSO: 9 mg/mL (14.89 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.6544 mL | 8.2718 mL | 16.5437 mL |
| 5 mM | 0.3309 mL | 1.6544 mL | 3.3087 mL |
| 10 mM | 0.1654 mL | 0.8272 mL | 1.6544 mL |
| 50 mM | 0.0331 mL | 0.1654 mL | 0.3309 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.

Reference

Brantom PG, Stevenson BI, Ingram AJ. A three-generation reproduction study of Ponceau 4R in the rat. Food Chem Toxicol. 1987 Dec;25(12):963-8.

Brantom PG, Stevenson BI, Wright MG. Long-term toxicity study of Ponceau 4R in rats using animals exposed in utero. Food Chem Toxicol. 1987 Dec;25(12):955-62.

Shi AM, et al. [Fluorescence spectra of ponceau-4R]. Guang Pu Xue Yu Guang Pu Fen Xi. 2009 Jan;29(1):192-5.

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