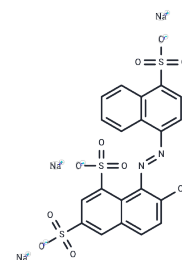


## Ponceau 4R

## Chemical Properties

CAS No. :	2611-82-7
Formula:	C <sub>20</sub> H <sub>11</sub> N <sub>2</sub> Na <sub>3</sub> O <sub>10</sub> S <sub>3</sub>
Molecular Weight:	604.46
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## 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	<p>Tissue Staining:</p> <ol style="list-style-type: none"> <li>prepare a staining solution for Ponceau 4R (usually in water or an appropriate buffer at a concentration of 0.1%-1%).</li> <li>for staining of tissue sections or certain biological samples, after which the stain is rinsed with an appropriate solution to remove background staining.</li> <li>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."</li> </ol> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

## Solubility Information

Solubility	H <sub>2</sub> 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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (0.83 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	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

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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.

### 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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