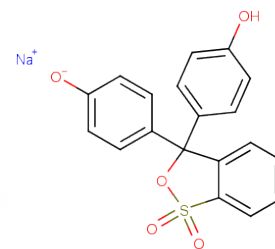


## Phenol Red sodium salt

## Chemical Properties

CAS No. :	34487-61-1
Formula:	C <sub>19</sub> H <sub>14</sub> NaO <sub>5</sub> S
Molecular Weight:	377.37
Storage:	Keep away from direct sunlight 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	Phenol Red sodium salt is a water-soluble pH indicator used in the range from 6.8 (yellow) to 8.2 (red).
Targets(IC50)	Others, Glutathione Peroxidase
In vitro	Phenol Red sodium salt is commonly employed as a cell tissue culture pH marker. Under normal conditions, phenol red added to the growth medium will have a pink-red color. Dying cells or overgrowth of contaminants will cause a change in pH resulting in a change in indicator color. Phenol red bears a structural resemblance to some nonsteroidal estrogens and has significant estrogenic activity at the concentrations (15-45 µM) at which it is found in tissue culture media. Phenol red binds to the estrogen receptor of MCF-7 human breast cancer cells and stimulates the proliferation of estrogen receptor-positive MCF-7 breast cancer cells in a dose-dependent manner but has no effect on the growth of estrogen receptor-negative MDA-MB-231 breast cancer cells [1].

## Solubility Information

Solubility	DMSO: 33.33 mg/mL (88.32 mM), Sonication is recommended. H <sub>2</sub> O: 10 mg/mL (26.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.6499 mL	13.2496 mL	26.4992 mL
5 mM	0.530 mL	2.6499 mL	5.2998 mL
10 mM	0.265 mL	1.325 mL	2.6499 mL
50 mM	0.053 mL	0.265 mL	0.530 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

Berthois Y, et al. Phenol red in tissue culture media is a weak estrogen: implications concerning the study of estrogen-responsive cells in culture. Proc Natl Acad Sci U S A. 1986 Apr;83(8):2496-500.

Pick E, et al. A simple colorimetric method for the measurement of hydrogen peroxide produced by cells in culture. J Immunol Methods. 1980;38(1-2):161-70.

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