

## p-Cresyl sulfate potassium

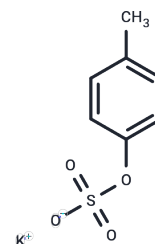
## Chemical Properties

CAS No. : 91978-69-7

Formula: C<sub>7</sub>H<sub>7</sub>KO<sub>4</sub>S

Molecular Weight: 226.29

Storage: Store at low temperature, Keep away from moisture,  
Store under nitrogen  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	p-Cresyl sulfate potassium (p-Tolyl sulfate potassium salt) is a prototype protein-bound uremic toxin derived from the metabolites of tyrosine and phenylalanine through liver.
Targets(IC50)	Endogenous Metabolite,JNK,p38 MAPK

## Solubility Information

Solubility	H <sub>2</sub> O: 100 mg/mL (441.91 mM),Sonication is recommended. DMSO: 300 mg/mL (1325.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (22.1 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	4.4191 mL	22.0955 mL	44.1911 mL
5 mM	0.8838 mL	4.4191 mL	8.8382 mL
10 mM	0.4419 mL	2.2096 mL	4.4191 mL
50 mM	0.0884 mL	0.4419 mL	0.8838 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

Gryp T, et al. p-Cresyl Sulfate. Toxins (Basel). 2017 Jan 29;9(2).

Peng YS, et al. BSA-bounded p-cresyl sulfate potentiates the malignancy of bladder carcinoma by triggering cell migration and EMT through the ROS/Src/FAK signaling pathway. Cell Biol Toxicol. 2020;36(4):287-300.

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