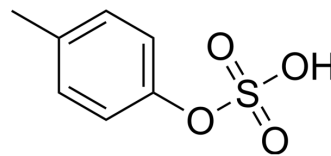


## p-Cresyl sulfate

Cat. No.:	HY-111431
CAS No.:	3233-58-7
Molecular Formula:	C <sub>7</sub> H <sub>8</sub> O <sub>4</sub> S
Molecular Weight:	188.2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1328.37 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mM	
			1 mg	5 mg	10 mg
	1 mM		5.3135 mL	26.5675 mL	53.1350 mL
	5 mM		1.0627 mL	5.3135 mL	10.6270 mL
	10 mM		0.5313 mL	2.6567 mL	5.3135 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (11.05 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (11.05 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (11.05 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	p-Cresyl Sulfate, a major uremic toxin derived from the metabolites of tyrosine and phenylalanine through liver, existed in the blood of patients with chronic kidney disease (CKD).	
IC <sub>50</sub> & Target	Microbial Metabolite	Human Endogenous Metabolite

### CUSTOMER VALIDATION

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- Cell Death Dis. 2023 Feb 2;14(2):78.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Peng YS, Syu JP, Wang SD, Pan PC, Kung HN. 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.

[2]. Gryp T, Vanholder R, Vaneechoutte M, Glorieux G. p-Cresyl Sulfate. Toxins (Basel). 2017;9(2):52. Published 2017 Jan 29.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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