

Product Name: p-Cresyl sulfate Revision Date: 01/10/2021

Product Data Sheet

p-Cresyl sulfate

Cat. No.: A8895

CAS No.: 3233-58-7

Formula: C7H8O4S

M.Wt: 188.20

Synonyms:

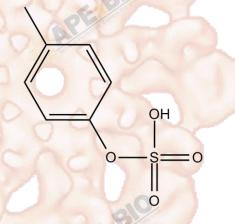
Target: Others

Pathway: Renal Diseases

Storage: Store at -20°CThe product is not stable in

solution, please dissolve it immediately before

ise.



Solvent & Solubility

insoluble in EtOH; \geq 30.1 mg/mL in DMSO; \geq 50 mg/mL in H2O

Preparing
In Vitro Stock Solutions

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	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.

Biological Activity

Protein-bound uremic retention solute

 IC_{50} & Target

Cell Viability Assay

In Vitro

Cell Line:	Human umbilical vein endothelial cells		
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please		
	warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for		
	a while. Stock solution can be stored below -20°C for several months.		
Reacting conditions:	24 h		

nug/mL p-cresol induce	
and 54%, respectively.	
reated with p-cresol is	
edium. 10 mug/mL, 25	
wound repair by 19%,	
L p-cresol prominently	
ats with normal and	
sed renal function, and	
ine (60 mg/kg) under	
ction, p-cresol serum	
rats with normal renal	
of the injected p-cresol	
unt is 6.7±7.5%.	
ne actual solubility may	
slightly differ with the theoretical value. This is caused by an experimental	

Product Citations

- 1. Potts DM, Peterson DG. "Identification of small molecule flavor compounds that contribute to the somatosensory attributes of bovine milk products." Food Chem. 2019 Oct 1;294:27-34.PMID:31126463
- 2. Shi Y, Zhang Y, et al. "Improved dialytic removal of protein-bound uremic toxins by intravenous lipid emulsion in chronic kidney disease rats." Nephrol Dial Transplant. 2019 May 9. pii: gfz079.PMID:31071223
- 3. Shi Y, Tian H, et al. "Effect of Ionic Strength, pH and Chemical Displacers on the Percentage Protein Binding of Protein-Bound Uremic Toxins." Blood Purif. 2018 Dec 18:1-10.PMID:30562731
- 4. Shi Y, Wang Y, et al. "Increasing the removal of protein-bound uremic toxins by liposome-supported hemodialysis." Artif Organs. 2018 Oct 30.PMID:30375673

See more customer validations on www.apexbt.com.

References

- 1. Dou L, Bertrand E, Cerini C, et al. The uremic solutes p-cresol and indoxyl sulfate inhibit endothelial proliferation and wound repair. Kidney international, 2004, 65(2): 442-451.
- 2. Lesaffer G, De Smet R, D'Heuvaert T et al. Comparative kinetics of the uremic toxin p-cresol versus creatinine in rats with and without renal failure. Kidney Int. 2003 Oct; 64(4):1365-73.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

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