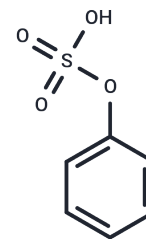


## Phenyl sulfate

## Chemical Properties

CAS No. :	937-34-8
Formula:	C <sub>6</sub> H <sub>6</sub> O <sub>4</sub> S
Molecular Weight:	174.17
Storage:	Store at low temperature 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	Phenyl sulfate is a gut microbiota-derived metabolite of tyrosine and a recognized uremic toxin. At a concentration of 30 μM, phenyl sulfate reduces the survival of differentiated human urinary podocyte-like epithelial cells (HUPECs), decreases intracellular glutathione (GSH) levels, and induces mitochondrial dysfunction. In a db/db mouse model of diabetes, phenyl sulfate administered at a dose of 50 mg/kg induces podocyte damage and albuminuria. Elevated plasma levels of phenyl sulfate are correlated with the progression of albuminuria in patients suffering from diabetic kidney disease, highlighting its role as a biomarker and potential therapeutic target.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	H <sub>2</sub> O: 200 mg/mL (1148.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7415 mL	28.7076 mL	57.4152 mL
5 mM	1.1483 mL	5.7415 mL	11.483 mL
10 mM	0.5742 mL	2.8708 mL	5.7415 mL
50 mM	0.1148 mL	0.5742 mL	1.1483 mL

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

Kikuchi K, et al. Gut microbiome-derived phenyl sulfate contributes to albuminuria in diabetic kidney disease. Nat Commun. 2019 Apr 23;10(1):1835.

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