

## Sulbactam-D2

## Chemical Properties

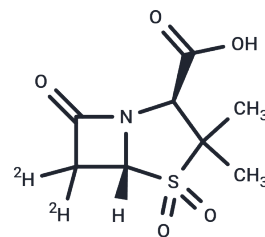
CAS No. :

Formula: C<sub>8</sub>H<sub>9</sub>D<sub>2</sub>N<sub>0</sub>S<sub>0</sub>

Molecular Weight: 235.25

Storage: 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

Sulbactam-D2 is a deuterated compound of Sulbactam. Sulbactam (T1631) has a CAS number of 68373-14-8. Sulbactam (T1631) is a semi-synthetic beta-lactamase inhibitor. The beta-lactam ring of sulbactam irreversibly binds to beta-lactamase at or near its active site, thereby blocking enzyme activity and preventing metabolism of other beta-lactam antibiotics by the enzyme. Combining this agent with a beta-lactamase susceptible antibiotic, such as penicillins or a cephalosporin, to treat infections caused by beta-lactamase producing organisms, results in a decreased turnover rate of the beta-lactamase sensitive antibiotic and enhances its antibacterial activity.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2508 mL	21.254 mL	42.508 mL
5 mM	0.8502 mL	4.2508 mL	8.5016 mL
10 mM	0.4251 mL	2.1254 mL	4.2508 mL
50 mM	0.085 mL	0.4251 mL	0.8502 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

1. Singh GS, et al. Mini Rev Med Chem. 2004 Jan;4(1):93-109.

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