

## Cefoperazone-D5

## Chemical Properties

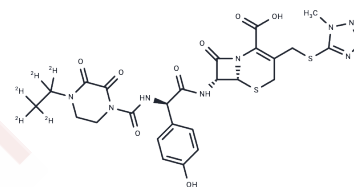
CAS No. : 2410425-70-4

Formula: C<sub>25</sub>H<sub>22</sub>D<sub>5</sub>N<sub>9</sub>O<sub>8</sub>S<sub>2</sub>

Molecular Weight: 650.7

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	Cefoperazone-D5 is a deuterated compound of Cefoperazone. Cefoperazone (T6437) has a CAS number of 62893-19-0. Cefoperazone (T6437) binds to and inactivates penicillin-binding proteins (PBPs) located on the inner membrane of the bacterial cell wall. PBPs are enzymes involved in the terminal stages of assembling the bacterial cell wall and in reshaping the cell wall during growth and division. Inactivation of PBPs interferes with the cross-linkage of peptidoglycan chains necessary for bacterial cell wall strength and rigidity. It can inhibit rMrp2-mediated [3H]E217βG uptake (IC <sub>50</sub> : 199 μM).
Targets(IC <sub>50</sub> )	Antibacterial, Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5368 mL	7.684 mL	15.3681 mL
5 mM	0.3074 mL	1.5368 mL	3.0736 mL
10 mM	0.1537 mL	0.7684 mL	1.5368 mL
50 mM	0.0307 mL	0.1537 mL	0.3074 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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