

## Piperacillin-D5

## Chemical Properties

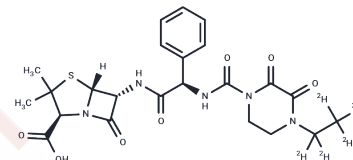
CAS No. :

Formula: C<sub>23</sub>H<sub>22</sub>D<sub>5</sub>N<sub>5</sub>O<sub>7</sub>S

Molecular Weight: 522.59

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

Piperacillin-D5 is a deuterated compound of Piperacillin. Piperacillin (T8620) has a CAS number of 61477-96-1. Piperacillin (T8620) is a semisynthetic penicillin with wide spectrum of antimicrobial activity (particularly pseudomonas strains)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9135 mL	9.5677 mL	19.1355 mL
5 mM	0.3827 mL	1.9135 mL	3.8271 mL
10 mM	0.1914 mL	0.9568 mL	1.9135 mL
50 mM	0.0383 mL	0.1914 mL	0.3827 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

Messori A , Tulli G , Caccese E , et al. Piperacillin-Tazobactam: Extended Infusion Versus Continuous Infusion[J]. Critical care medicine, 2018, 46(7):e725.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481