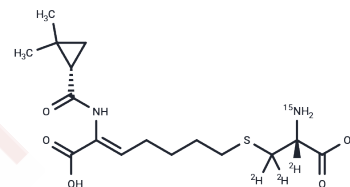


## Cilastatin-15N,D3

### Chemical Properties

CAS No. : 2738376-83-3  
 Formula: C<sub>16</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>S  
 Molecular Weight: 362.47  
 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	Cilastatin-15N,D3 is a version of Cilastatin (T2583) that is labeled with <sup>15</sup> N and deuterium. Cilastatin (T2583) (MK0791) acts as a reversible competitive inhibitor of renal dehydropeptidase I, with an IC <sub>50</sub> of 0.1 μM. It inhibits the bacterial metallo-beta-lactamase CphA with an IC <sub>50</sub> of 178 μM. Cilastatin (T2583) is utilized as an antibacterial adjunct.
Targets(IC <sub>50</sub> )	Antibacterial,Antibiotic

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7588 mL	13.7942 mL	27.5885 mL
5 mM	0.5518 mL	2.7588 mL	5.5177 mL
10 mM	0.2759 mL	1.3794 mL	2.7588 mL
50 mM	0.0552 mL	0.2759 mL	0.5518 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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