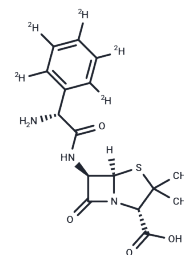


Ampicillin-D5

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1426173-65-0 |
| Formula: | C ₁₆ H ₁₉ N ₃ O ₄ S |
| Molecular Weight: | 354.44 |
| Storage: | Keep away from moisture 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 | Ampicillin-D5 is a 2H-labeled Ampicillin. Ampicillin (T0814L) is a β -lactam antibiotic, a semi-synthetic penicillin with bactericidal activity against both gram-positive and gram-negative bacteria. |
| Targets(IC50) | Antibacterial, Antibiotic |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: 2 mg/mL (5.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.8214 mL | 14.1068 mL | 28.2135 mL |
| 5 mM | 0.5643 mL | 2.8214 mL | 5.6427 mL |
| 10 mM | 0.2821 mL | 1.4107 mL | 2.8214 mL |
| 50 mM | 0.0564 mL | 0.2821 mL | 0.5643 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

Goto T, et al. High-throughput analysis of tetracycline and penicillin antibiotics in animal tissues using electrospray tandem mass spectrometry with selected reaction monitoring transition. J Chromatogr A. 2005 Dec 30;1100(2):193-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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