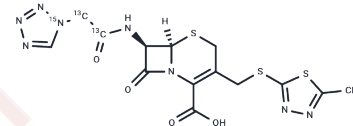


Cefazolin-13C2,15N

Chemical Properties

CAS No. :	2101505-58-0
Formula:	C ₁₄ H ₁₄ N ₈ O ₄ S ₃
Molecular Weight:	457.49
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	Cefazolin-13C ₂ ,15N is intended for use as an internal standard for the quantification of cefazolin by GC- or LC-MS. Cefazolin (T8390) is a broad-spectrum cephalosporin antibiotic that is active in vitro against various Gram-positive and Gram-negative bacteria (MICs = 0.2-12.5 µg/ml). It also inhibits the growth of clinical isolates of <i>S. aureus</i> , <i>E. coli</i> , <i>P. mirabilis</i> , and <i>K. pneumoniae</i> (MICs = 0.1-25 µg/ml).
Targets(IC50)	Antibacterial, Antibiotic
In vivo	In vivo, cefazolin protects against <i>S. aureus</i> , <i>E. coli</i> , and <i>P. mirabilis</i> infection in mice (ED ₅₀ s = <0.09-1.78, 0.44-3.63, and 2.31-5.2 mg/animal, respectively). Formulations containing cefazolin have been used to treat a variety of bacterial infections.

Solubility Information

Solubility	DMF: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1858 mL	10.9292 mL	21.8584 mL
5 mM	0.4372 mL	2.1858 mL	4.3717 mL
10 mM	0.2186 mL	1.0929 mL	2.1858 mL
50 mM	0.0437 mL	0.2186 mL	0.4372 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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