

Product Data Sheet

Product Name: Cefazolin-13C2,15N

Cat. No.: GC43222

Chemical Properties

Cas. No. 2101505-58-0

SMILES O=[13C]([13CH2][15N]1N=NN=C1)N[C@H](C2=O)[C@]3([H])N2C(C(O)=O)=C(CSC4=NN=C(C)S4)CS3

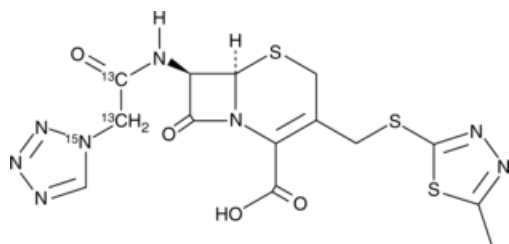
Formula C12[13C]2H14N7[15N]O4S3 M.Wt 457.5

Solubility DMF: Soluble Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Cefazolin-13C2,15N is intended for use as an internal standard for the quantification of cefazolin by GC- or LC-MS. Cefazolin 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 *S. aureus*, *E. coli*, *P. mirabilis*, and *K. pneumoniae* (MICs = 0.1-25 µg/ml). In vivo, cefazolin protects against *S. aureus*, *E. coli*, and *P. mirabilis* infection in mice (ED50s = <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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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