

## Ceftriaxone-13C2,D3 triethylammonium salt

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Ceftriaxone-13C2,D3 triethylammonium salt is a 13C and deuterium-labeled form of Ceftriaxone. Ceftriaxone (Ro 13-9904 free acid) is a broad-spectrum, third-generation $\beta$ -lactam cephalosporin antibiotic with effective antibacterial activity against various Gram-negative and Gram-positive bacteria. It acts as a covalent inhibitor of GSK3 $\beta$ , with an IC50 value of 0.78 mM, and also inhibits Aurora B. Additionally, Ceftriaxone exhibits anti-inflammatory, antitumor, and antioxidant activities. It is applicable in research related to bacterial infections and meningitis.
Targets(IC50)	Antibacterial,Antibiotic,Aurora Kinase,GSK-3
In vivo	Ceftriaxone (200 mg/kg, I.P., 6 weeks) enhances functional indices and mitigates oxidative stress and inflammation in a rat model of liver and kidney injury induced by D-galactose (DGL). Additionally, ceftriaxone (200, 400 mg/kg, I.P.) offers protective effects against Pentylenetetrazol (PTZ)-induced seizures and associated oxidative damage in rats. In a Streptozocin-induced diabetic rat model, ceftriaxone (100, 200 mg/kg, I.P.) alleviates mechanical allodynia and hyperalgesia by activating GLT-1.

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