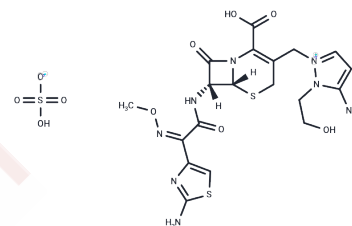


## Cefoselis Sulfate

## Chemical Properties

CAS No. :	122841-12-7
Formula:	C <sub>19</sub> H <sub>22</sub> N <sub>8</sub> O <sub>6</sub> S <sub>2</sub> ·H <sub>2</sub> SO <sub>4</sub>
Molecular Weight:	620.64
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	Cefoselis Sulfate is a widely used beta-lactam antibiotic.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Cefoselis inhibits GABA-induced currents in a concentration-dependent manner with IC <sub>50</sub> of 185 mM. [1] Cefoselis possesses a superior antistaphylococcal activity on MSSA isolates to both other compounds being however equal active to Cefepime and Cefpirome on multiresistant enterobacteriaceae. [2] Cefoselis is dose-dependently appeared in brain extracellular fluid in proportion to its blood level. [3] Cefoselis, a new parenteral cephalosporin, is active against clinical isolates of both gram-positive and gram-negative aerobic bacteria. [4]
In vivo	Cefoselis elicits a massive elevation of extracellular glutamate concentration in normal rats. [3] Cefoselis (50 mg/animal)-induced convulsions are prevented by pretreatment with 5-methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine (MK-801), diazepam and phenobarbital (ED <sub>50</sub> values (mg/kg) of 0.78, 1.59 and 33.0, respectively), but not by carbamazepine or phenytoin. [5]

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (44.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.22 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	1.6112 mL	8.0562 mL	16.1124 mL
5 mM	0.3222 mL	1.6112 mL	3.2225 mL
10 mM	0.1611 mL	0.8056 mL	1.6112 mL
50 mM	0.0322 mL	0.1611 mL	0.3222 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

- Sugimoto M, et al. Br J Pharmacol, 2002, 135(2), 427-432.
- Giamarellos-Bourboulis EJ, et al. Diagn Microbiol Infect Dis, 2000, 36(3), 185-191.
- Ohtaki K, et al. J Neural Transm, 2004, 111(12), 1523-1535.
- Yamada K, et al. J Infect Chemother, 2012, 18(4), 472-478.
- Yamazaki S, et al. Pharmacol Biochem Behav, 2002, 74(1), 53-59.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481