

Product Data Sheet

Product Name: Cefoxitin
Cat. No.: GC60686

Chemical Properties

Cas. No. 35607-66-0

SMILES O=C(C(N12)=C(COC(N)=O)CS[C@]2([H])[C@@](NC(CC3=CC=CS3)=O)(OC)C1=O)O

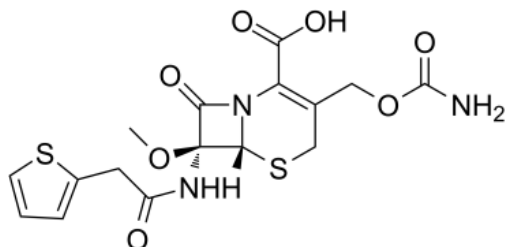
Formula $C_{16}H_{17}N_3O_7S_2$ M.Wt 427.45

Solubility DMSO: 100 mg/mL (233.95 mM) Storage 4°C, away from moisture and light

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

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

Structure



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Cefoxitin (20 mg/kg; i.p.; daily; for 5 days) effectively kills *B. burgdorferi* in vivo C3H/HeN mouse model[3]. Animal Model: Four-week-old female C3H/HeN mice[3]

[1]. E O Stapley, et al. Cefoxitin and cephamycins: microbiological studies. *Rev Infect Dis.* Jan-Feb 1979;1(1):73-89. [2]. R N Brogden, et al. Cefoxitin: a review of its antibacterial activity, pharmacological properties and therapeutic use. *Drugs.* 1979 Jan;17(1):1-37. [3]. Venkata Raveendra Pothineni, et al. In vitro and in vivo evaluation of cephalosporins for the treatment of Lyme disease. *Drug Des Devel Ther.* 2018; 12: 2915-2921.

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

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