

Product Data Sheet

Product Name: Clavulanate lithium

Cat. No.: GC38901

Chemical Properties

Cas. No. 61177-44-4

SMILES O=C([C@@H](/C(O[C@]1([H])C2)=C/CO)N1C2=O)O[Li]

Formula $C_8H_8LiNO_5$ M.Wt 205.09

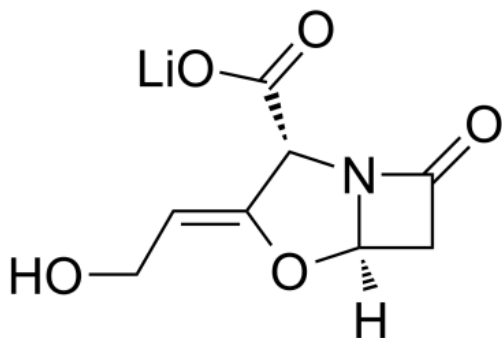
Solubility Water: 50 mg/mL (243.80 mM);
DMSO: 5 mg/mL (24.38 mM);
ultrasonic and warming and heat to 80°C)

Storage Store at -20°C

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



Background

Clavulanate lithium is a potent β -lactamase inhibitor and acts as an antibiotic[1][2].

Clavulanate lithium has weak antibacterial activity against most organisms when administered alone, but given in combination with beta-lactam antibiotics prevents antibiotic inactivation by microbial

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

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lactamase[1].Clavulanate lithium (0.25, 0.5 mg/L) causes a relatively slow inhibition of growth, and a higher concentration (1 mg/L) is only marginally more effective than 0.5 mg/L [2]. Cell Viability Assay[2] Cell Line: L. pneumophila NCTC 1119

[1]. Reading C, et al. Clavulanic Acid: a Beta-Lactamase-Inhibiting Beta-Lactam from Streptomyces clavuligerus. Antimicrob Agents Chemother. 1977 May; 11(5): 852-857. [2]. Stokes DH, et al. Bactericidal effects of amoxycillin/clavulanic acid against intracellular Legionella pneumophila in tissue culture studies. J Antimicrob Chemother. 1989 Apr;23(4):547-56.

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