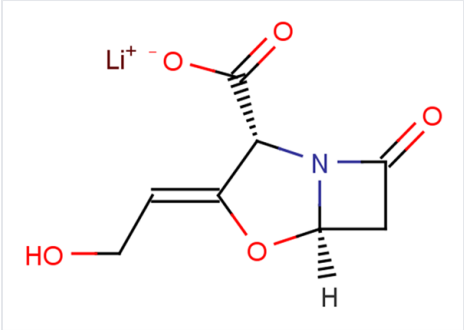
Clavulanate lithium Inhibitor

PRODUCT OVERVIEW

Product Name	Clavulanate lithium, Inhibitor
Full Product Name	Clavulanate lithium
Form/Format	Solid. Powder
Purity/Purification	98.00%
Preparation and Storage	Store at -20 degree C for 3 years powder -80 degree C for 2 years in solvent
Molecular Weight	205.09
Solubility	H2O: 50mg/mL (243.80mM) Need ultrasonic DMSO: 5mg/mL (24.38mM) ultrasonic and warming and heat to 80 degree C (<1mg/ml refers to the product slightly soluble or insoluble)
Formula	C8H8LiNO5
SMILES	O=C([C@@H](/C(O[C@]1([H])C2)=C/CO)N1C2=O)O[Li]
CAS Number	61177-44-4
Target & IC50	beta-lactamase
In Vitro	Clavulanate lithium has weak antibacterial activity against most organisms when administered alone. When given in combination with beta-lactam antibiotics, it prevents antibiotic inactivation by microbial lactamase [1]. Clavulanate lithium (0.25, 0.5mg/L) causes a relatively slow inhibition of growthours. However, a higher concentration (1mg/L) is only marginally more effective than 0.5mg/L [2].
Product Categories/Family for Clavulanate lithium, inhibitor	Microbiology&virology; Antibacterial
Related Product Information for Clavulanate lithium, inhibitor	MBS5754724 is an inhibitor targeting Clavulanate lithium. Clavulanate lithium is an inhibitor of beta-lactamase used as an antibiotic.
Product References and Citations for Clavulanate lithium, inhibitor	Reading C, et al. Clavulanic Acid: a Beta-Lactamase-Inhibiting Beta-Lactam from Streptomyces clavuligerus. Antimicrob Agents Chemother. 1977 May; 11(5): 852-857. Reading C, et al. Clavulanic Acid: a Beta-Lactamase-Inhibiting Beta-Lactam from Streptomyces clavuligerus. Antimicrob Agents Chemother. 1977 May; 11(5): 852-857. 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. 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.
Other Notes	Small volumes of Clavulanate lithium, inhibitor vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Structure of Clavulanate lithium, inhibitor

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Online datasheet: https://www.mybiosource.com/inhibitor/clavulanate-lithium/5754724