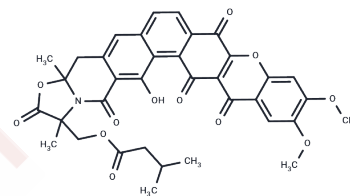


## Citreamicin alpha

## Chemical Properties

CAS No. :	122535-63-1
Formula:	C <sub>36</sub> H <sub>31</sub> N <sub>1</sub> O <sub>12</sub>
Molecular Weight:	669.63
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	Citreamicin alpha (LL-E 19085-alpha) is an antibiotic that has been evaluated for its in vitro antibacterial activity against 429 clinical isolates of Gram-positive cocci using the agar dilution method. This study included 313 strains of staphylococci and 116 strains of streptococci. Its in vitro efficacy was compared with ampicillin, amoxicillin, cephalothin, erythromycin, and vancomycin. For staphylococci, Citreamicin alpha demonstrated MIC values ranging from 0.12 to 4.0 µg/ml, and for Streptococcus pyogenes, the MIC values ranged from 0.03 to 0.12 µg/ml. Conversely, enterococci presented relative resistance, requiring 2.0 µg/ml to inhibit 64% of 62 tested strains. The antibiotic's in vitro efficacy significantly surpassed that of ampicillin, amoxicillin, cephalothin, and erythromycin, while it was comparable to or slightly less effective than vancomycin.
Targets(IC50)	Antibacterial, Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4934 mL	7.4668 mL	14.9336 mL
5 mM	0.2987 mL	1.4934 mL	2.9867 mL
10 mM	0.1493 mL	0.7467 mL	1.4934 mL
50 mM	0.0299 mL	0.1493 mL	0.2987 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.

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

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