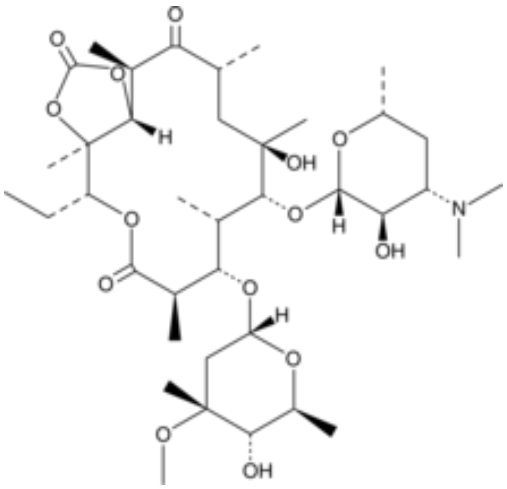
Product Data Sheet

Product Name: Davercin
Cat. No.: GC43381

Chemical Properties

Cas. No.	55224-05-0		
SMILES	C[C@H]1[C@H](O)[C@@](OC)(C)C[C@@](O[C@H]([C@@H](C)C(O[C@H](CC)[C@]2(C)[C@@](OC(O2)=O)([H])[C@H]3C)=O)[C@H](C)[C@@H](O[C@@]4([H])[C@H](O)[C@@H](N(C)C)C[C@@H](C)O4)[C@](C)(O)C[C@@H](C)C3=O)([H])O1		
Formula	C38H65NO14	M.Wt	759.9
Solubility	DMF: 15 mg/ml,DMSO: 15 mg/ml,Ethanol: 30 mg/ml,Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/ml	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

Davercin (Erythromycin Cyclocarbonate), derivative of Erythromycin, which is active against Gram-positive and some Gram-negative microorganisms.

Caution: Product has not been fully validated for medical applications. For research use only.
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Erythromycin is used in treatment of respiratory, gastrointestinal, and genital tract infections, as well as skin and soft tissue infections. Erythromycin, with its ten chiral centers and two sugar substituents (L-cladinose and D-desosamine), is a good starting point for numerous medicinal chemistry efforts for improvement of its biological profile (better activity, higher stability, and improved bioavailability) since the first generation of macrolides, which had low toxicity and good tolerability, are unstable in acidic media, had low toxicity and good tolerability[1].

References:

[1]. Jelic D, et al. From Erythromycin to Azithromycin and New Potential Ribosome-Binding Antimicrobials. Antibiotics (Basel). 2016 Sep 1;5(3). pii: E29.

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