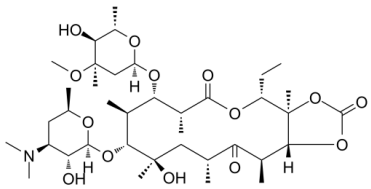
Data Sheet

Product Name:	Davercin
Cat. No.:	CS-6076
CAS No.:	55224-05-0
Molecular Formula:	C38H65NO14
Molecular Weight:	759.92
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : ≥ 50 mg/mL (65.80 mM)



BIOLOGICAL ACTIVITY:

Davercin (Erythromycin Cyclocarbonate), derivative of Erythromycin, which is active against Gram-positive and some Gram-negative microorganisms. IC50 & Target: Antibacterial[1] **In Vitro:** 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.

CAIndexNames:

Erythromycin, cyclic 11,12-carbonate

SMILES:

C[C@]([C@H](OC([C@@H]([C@H]([C@H](C)[C@H]1O[C@@](O[C@H](C)C[C@@H]2N(C)C)([H])[C@@H]2O)O[C@@](O[C@@H](C)[C@@H]3O)([H])C[C@@]3(C)OC)C)=O)CC)(O4)[C@]([C@H](C([C@@H](C[C@]1(O)C)C)=O)C)([H])OC4=O

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA