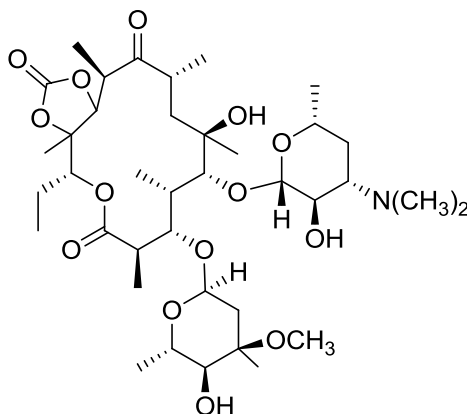


## Davercin

Code No.: **BIA-E1433**

Pack sizes: **1 mg, 5 mg**



Synonyms : Erythromycin A 11,12-carbonate, Erythromycin A cyclic 11,12-carbonate, Erythromycin cyclic carbonate

### Specifications

CAS # : **55224-05-0**  
Molecular Formula : **C<sub>38</sub>H<sub>65</sub>NO<sub>14</sub>**  
Molecular Weight : **759.9**  
Source : **Semi-synthetic**  
Appearance : **White solid**  
Purity : **>98% by HPLC**  
Long Term Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

### Application Notes

Davercin (erythromycin A cyclic 11,12-carbonate) is a first generation semi-synthetic erythromycin. Davercin is prepared by coupling the 11- and 12-OH groups to form a cyclic carbonate. This simple modification improves the stability and hydrophobicity of the macrocyclic structure. Davercin shows comparable or better in vitro potency, low host toxicity and improved pharmacokinetics compared with erythromycin.

### References

1. Erythromycin derivatives and the process of preparation thereof. Murphy H.W. et al. U.S. Pat. 3,417,077, 1968
2. L-aspartate of erythromycin A cyclic 11,12-carbonate, a new semisynthetic erythromycin derivative. Bojarska-Dahlig H. J. Antibiot. 1976, 29, 907.

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