Davercin

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

Specifications

CAS #: 55224-05-0
Molecular Formula: C_{38}H_{65}NO_{14}
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