



Catalog # 10-2059

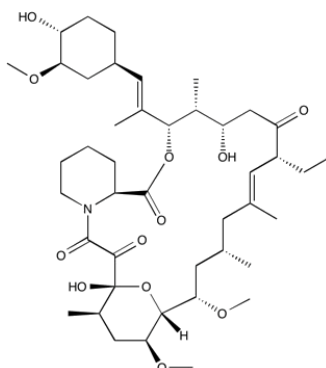
Ascomycin

CAS# 104987-12-4

FK-520, FR-900520

Fermentation product from *Streptomyces hygroscopicus*

Lot # X101527



Analog of FK-506. Potent immunosuppressant¹. Binds to FKBP12² and inhibits calcineurin and NFAT. Displays antiinflammatory effects in skin diseases³. Cell permeable and active *in vivo*.

- 1) Hatanaka *et al.* (1988), *FR-900520 and FR-900523, novel immunosuppressants isolated from a Streptomyces. II. Fermentation, isolation and physio-chemical and biological characteristics*; J.Antibiot. (Tokyo), **41** 1592
- 2) Petros *et al.* (1991), *NMR studies of an FK506 analogue [U-13C]ascomycin, bound to FKBP: conformation and regions of ascomycin involved in binding*; J.Med.Chem., **34** 2925
- 3) Mollison *et al.* (1999), *A macrolactam inhibitor of T helper type 1 and T helper type 2 cytokine biosynthesis for topical treatment of inflammatory skin diseases*; J.Invest.Dermatol., **112** 729

PHYSICAL DATA

Molecular Weight:	729.03
Molecular Formula:	C ₄₃ H ₆₉ NO ₁₂
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 50 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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