

Ascomycin

Catalog No: tcsc1516



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

104987-12-4

Formula:

$C_{43}H_{69}NO_{12}$

Pathway:

Anti-infection

Target:

Fungal

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 39 mg/mL (49.24 mM)

Alternative Names:

Immunomycin;FR-900520;FK520

Observed Molecular Weight:

792.01

Product Description

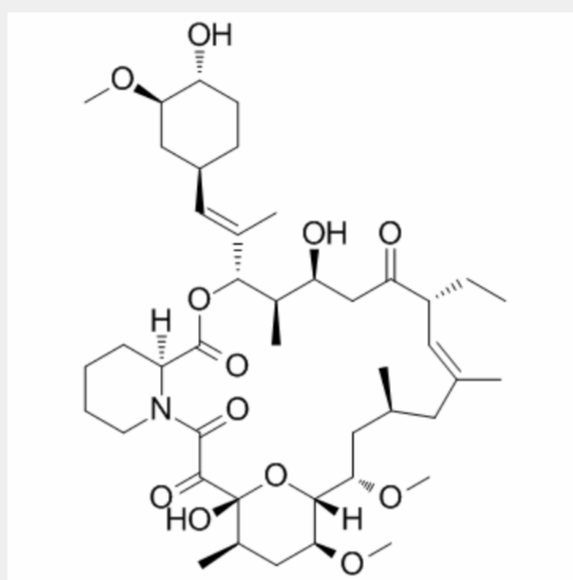
Ascomycin(Immunomycin, FR-900520, FK520) is an ethyl analog of tacrolimus (FK506) with strong immunosuppressant properties.

IC50 Value: 0.55 nM [1]

Target:

in vitro: When we used either CD4+CD8+ thymocytes or peripheral T cells activated by phorbol ester and ionomycin, the cell surface induction of CD5 was also partially blocked by CsA, FK-520 and rapamycin [2]. Ascomycin also had a 3-fold lower immunosuppressive potency in a popliteal lymph node hyperplasia assay, resulting in an equivalent therapeutic index consistent with a common mechanistic dependence on calcineurin inhibition [3].

in vivo: In 14-day studies, nephrotoxicity was not induced by continuous i.p. infusion of ascomycin at 10 mg/kg/day or daily oral administration (up to 50 mg/kg/day) in rats on a normal diet, nor by continuous i.v. infusion (up to 6 mg/kg/day) in rats on a low salt diet to enhance susceptibility [3].



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