



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:		

Product Description

792.01





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]. Ascomycinalso 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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