



LKT Laboratories, Inc.

Ascomycin

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Product Information

Product ID A7208

CAS No. 104987-12-4

Chemical Name

Synonym

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

Formula Wt. 792.01

Melting Point 162-163°C

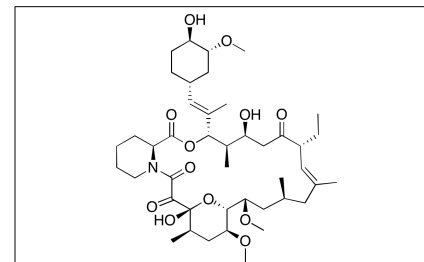
Purity ≥98%

Solubility Soluble in DMSO

Store Temp 4°C

Ship Temp Ambient

Description Ascomycin is an ethyl analog of FK506 that was initially produced by species of *Streptomyces*. Ascomycin binds FK506 binding protein 12 and the resulting complex inhibits calcineurin/protein phosphatase 2B (PP2B), altering peptidyl-prolyl isomerase activity of the enzyme. Ascomycin exhibits immunosuppressive, anti-inflammatory, and anticonvulsant activities. Clinically, ascomycin is used to treat organ transplant rejection and inflammatory skin diseases.



Bulk quantities available upon request

| Product ID | Size |
|------------|------|
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| A7208 | 1 mg |
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| A7208 | 5 mg |
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| A7208 | 25 mg |
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|-------|--------|
| A7208 | 100 mg |
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References Liu F, Wang YQ, Meng L, et al. FK506-binding protein 12 ligands: a patent review. *Expert Opin Ther Pat*. 2013 Nov;23(11):1435-49. PMID: 23957229.

Sierra-Paredes G, Sierra-Marcuño G. Ascomycin and FK506: pharmacology and therapeutic potential as anticonvulsants and neuroprotectants. *CNS Neurosci Ther*. 2008 Spring;14(1):36-46. PMID: 18482098.

Pahl A, Keller U. FK-506-binding proteins from streptomycetes producing immunosuppressive macrolactones of the FK-506 type. *J Bacteriol*. 1992 Sep;174(18):5888-94. PMID: 1381710.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.