



# Ascomycin PRODUCT DATA SHEET

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<b>Product Name:</b>	Ascomycin
<b>Product Number:</b>	A015
<b>CAS Number:</b>	104987-12-4
<b>Molecular Formula:</b>	$C_{43}H_{69}NO_{12}$
<b>Molecular Weight:</b>	792.01
<b>Form:</b>	Powder
<b>Appearance:</b>	White crystalline powder
<b>Solubility:</b>	10mg/mL in Methanol - Clear and colorless or faint yellow solution
<b>Source:</b>	<i>Streptomyces hygrosopicus</i>
<b>Water Content (Karl Fischer):</b>	≤1.0%
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	Ascomycin is an ethyl analog of FK506 with strong immunosuppressant properties.
<b>Mechanism of Action:</b>	Ascomycin inhibits the production of cytokines produced by Th1 and Th2 cells namely IL-2, IL-4, and IL-10. Additionally, ascomycin inhibits mast cell activation, an important component involved in the atopic immune response.

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