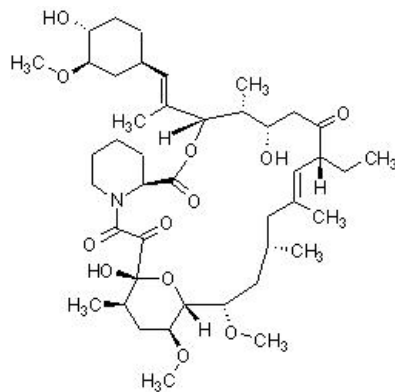


Product datasheet

Ascomycin, Calcineurin/PP2B inhibitor ab141016

Overview

Product name	Ascomycin, Calcineurin/PP2B inhibitor
Description	Calcineurin/PP2B inhibitor. Immunosuppressant and antifungal activity.
Biological description	Calcineurin/PP2B inhibitor (IC ₅₀ = 49 nM). Forms a FK-506 binding protein 12 (FKBP12) - Ascomycin - Calcineurin complex. Immunosuppressant and antifungal activity <i>in vitro</i> and <i>in vivo</i> .
Purity	> 98%
CAS Number	104987-12-4
Chemical structure	



Properties

Chemical name	(3 <i>S</i> ,4 <i>R</i> ,5 <i>S</i> ,8 <i>R</i> ,9 <i>E</i> ,12 <i>S</i> ,14 <i>S</i> ,15 <i>R</i> ,16 <i>S</i> ,18 <i>R</i> ,19 <i>R</i> ,26 <i>aS</i>)-8-Ethyl-5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26 <i>a</i> -hexadecahydro-5,19-dihydroxy-3-[(1 <i>E</i>)-2-[(1 <i>R</i> ,3 <i>R</i> ,4 <i>R</i>)-4-hydroxy-3-methoxycyclohexyl]-1-methylethenyl]-14,16-dimethoxy-4,10,12,18-tetramethyl-15,19-epoxy-3 <i>H</i> -pyrido[2,1- <i>c</i>][1,4]oxaazacyclotricosine-1,7,20,21(4 <i>H</i> ,23 <i>H</i>)tetrone
Molecular weight	792.12
Molecular formula	C ₄₃ H ₆₉ NO ₁₂
PubChem identifier	6437370
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM and in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room

temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

O[C@@H]1CC[C@H](C[C@H]1OC)\C=C(/C)[C@H]3OC(=O)[C@@H]2CCCN(C2)C(=O)C(=O)[C@]4(O)O[C@H]([C@H](C[C@@H](C)CC(C)=C[C@@H](CC)C(=O)C[C@H](O)[C@H]3C)OC)[C@H](C[C@H]4C)OC

Source

Streptomyces hygrosopicus var. *ascomyceticus*

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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