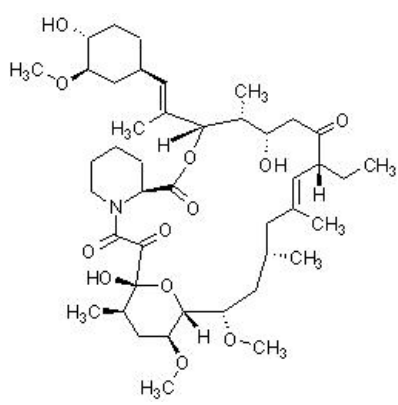


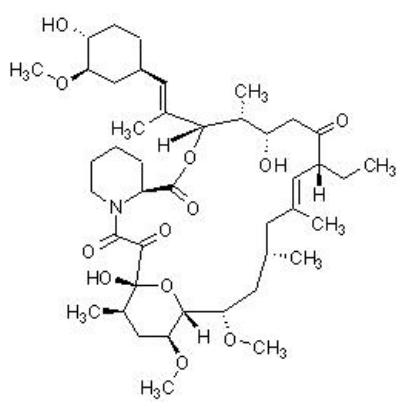
Product datasheet

Ascomycin, Calcineurin/PP2B inhibitor ab141016

1 Image

Overview

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



Properties

<b>Chemical name</b>	(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
<b>Molecular weight</b>	792.12
<b>Molecular formula</b>	C <sub>43</sub> H <sub>69</sub> NO <sub>12</sub>
<b>PubChem identifier</b>	6437370
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 50 mM and in ethanol to 100 mM
<b>Handling</b>	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.

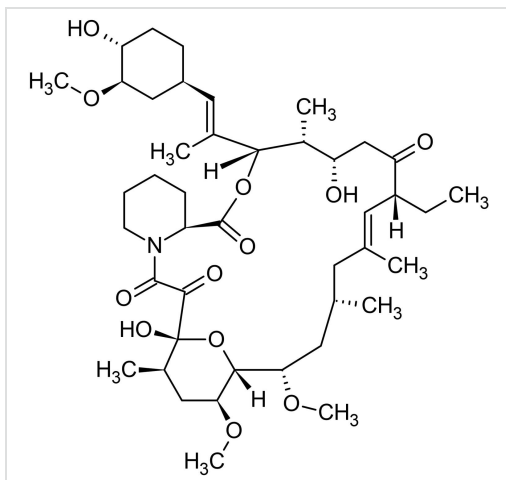
## SMILES

```
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*

## Images



2D chemical structure image of ab141016, Ascomycin, Calcineurin/PP2B inhibitor

Chemical Structure - Ascomycin, Calcineurin/PP2B inhibitor (ab141016)

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

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