



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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FK506

FKBP inhibitor  
Catalog No. SIH-214



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

FK506

### Description

FKBP inhibitor

### Purity

>98%

### CAS No.

109581-93-3

### Molecular Formula

C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O<sub>5</sub>

### Molecular Weight

353.36

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

Soluble to 100 mM in ethanol, and to 100 mM in DMSO

### Source

Synthetic

### Appearance

White Solid

### SMILES

CCC(C)(C)C(=O)C(=O)N1CCCC1C(=O)OCCCC2=CN=CC=C2

### InChI

InChI=1S/C44H69NO12/c1-10-13-31-19-25(2)18-26(3)20-37(54-8)40-38(55-9)22-28(5)44(52,57-40)41(49)42(50)45-17-12-11-14-32(45)4

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**InChIKey**

QJJXYPPXXYFBGM-LFZNUXCKSA-N

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**Safety Phrases**

Classification: Caution: Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H301

Precautionary Phrases:

P301 + P310

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**Cite This Product**

FK506 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-214)

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**Biological Description**

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**Alternative Names**

3-(3-Pyridinyl)propyl 1-(3,3-dimethyl-2-oxopentanoyl)prolinate, Tacrolimus, Fujimycin

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**Research Areas**

Cancer, Apoptosis

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**PubChem ID**

445643

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**Scientific Background**

FK506 or Fujimycin or Tacrolimus, is an immunosuppressant. It is mainly used after allogeneic organ transplants, but can also be used topically in the treatment of eczema, uveitis and vitiligo (1). It is a macrolide that prevents the dephosphorylation of NF-AT. It reduces peptidyl-prolyl isomerase activity by binding to FKBP12 creating a new complex that interacts with and inhibits calcineurin (2, 3).

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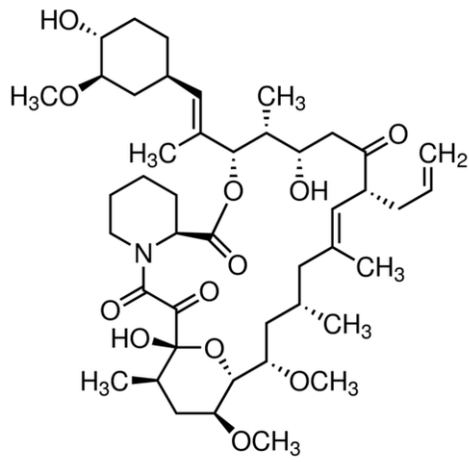
**References**

1. Nanette B., et al. (2004) J Am Acad Derm. 51(5): 760-766.
  2. Ganong W.F., Review of Medical Physiology (22nd ed.) Lange Medical Books. P.530
  3. Liu J. Lane W., Friedman J, Weissman I and Schreiber S. (1991) Cell. 66(4): 807-815
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**Product Images**

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Chemical structure of FK506 (SIH-214), a FKBP inhibitor. CAS #: 109581-93-3.  
Molecular Formula: C<sub>44</sub>H<sub>69</sub>NO<sub>12</sub> · H<sub>2</sub>O. Molecular Weight: 804.02 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.