FK506

Immunosuppressant

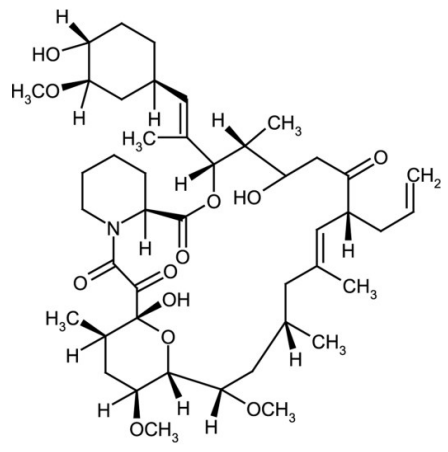
Immunosuppressant that blocks T cell proliferation *in vitro* by inhibiting the generation of several lymphokines, especially IL-2. Shown to inhibit the activity of FK506 binding protein and to inhibit the Ca^{2+}-dependent phosphatase and protein phosphatase 2B (PP2B; calcineurin). Activates NF-κB through phosphorylation and degradation of IκBα.

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Ordering Information Order Online »

ALX-380-008-M005	5mg
ALX-380-008-M025	25mg

Manuals, SDS & CofA View Online »


H
HO
H3CO
H
H
H3C
H
CH3
H
HO
O
CH2
N
H
O
O
O
O
H
CH3
OH
H3C
O
H
CH3
H
H
H
OCH3
H
OCH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Tacrolimus
Appearance	White to off-white crystalline powder.
CAS	104987-11-3
Couple Target	FKBP, Serine/threonine-protein phosphatase
Couple Type	Inhibitor, Ligand
Formula	$C_{44}H_{69}NO_{12}$
Identity	FT-IR
MI	**14:** 9025
MW	804.0
Purity	≥98% (HPLC)
RTECS	KD4200000
Solubility	Soluble in DMSO, 100% ethanol, methanol, ethyl acetate or acetone; insoluble in water.
Source	Isolated from *Streptomyces tsukubaensi.*

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Last modified: May 29, 2024

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