

FK-506, FKBP inhibitor

Catalog	Unit
TBI1103 - 10MG	10 mg
TBI1103 - 50MG	50 mg

Product Details

Formal Name: (3S,4R,5S,8R,9E,12S,14S,15R,16S,18R,19R,26aS)-5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a-hexadecahydro-5,19-dihydroxy-3-[(1E)-2-[(1R,3R,4R)-4-hydroxy-3-methoxycyclohexyl]-1-methylethenyl]-14,16-dimethoxy-4,10,12,18-tetramethyl-8-(2-propen-1-yl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosine-1,7,20,21(4H,23H)-tetrone

Alternate Names: Tacrolimus

Molecular Formula: C₄₄H₆₉NO₁₂

Formula Weight: 804.04

CAS Number: 104987-11-3

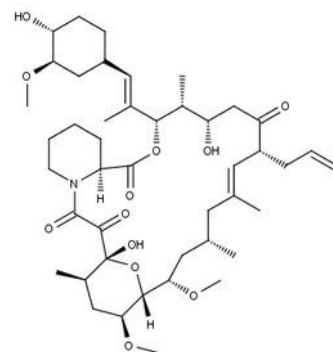
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 50 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

FKBP inhibitor

Functions

FK-506 (104987-11-3) induces immunosuppression by inhibiting T cell proliferation. Inhibits FKBP12 and calcineurin (IC₅₀ ~ 1 nM). Cell permeable.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

For research use only.