



Certificate of Analysis

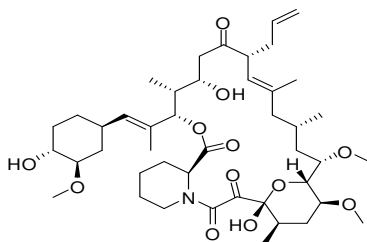
Axon Catalogue ID: 2263 **Batch Number:** 1

Product Name: Tacrolimus

Alternative Name(s): FK 506

IUPAC 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

Structure:



Amount:

CAS number(s): 104987-11-3

Molecular Formula: C₄₄H₆₉NO₁₂ **Molecular Weight:** 804.02

Batch Molecular Formula: C₄₄H₆₉NO₁₂.1H₂O **Batch Molecular Weight:** 822.03

Appearance: White solid **Observed mp:** 130°C

TLC (R_f): 0.45 DCM/MeOH (9/1)

Chemical Purity: 98.7%

Optical Purity (ee): N.A.

¹H-NMR (300 MHz): Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 64.29, H 8.71, N 1.70; Found: C 64.21, H 9.15, N 1.70

Storage Conditions: Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	82.2	>100 mM	
	EtOH			Not Tested

Remarks: CAS number monohydrate 109581-93-3
Compound is probably unstable in solution.

QC Date: 27-11-2019

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only