



## Certificate of Analysis

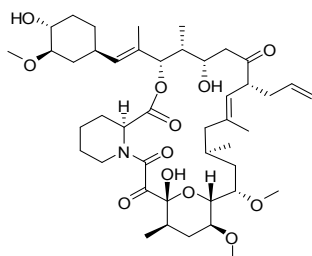
**Axon Catalogue ID:** 2263 **Batch Number:** 1

**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:** 104987-11-3

**Batch Molecular Formula:** C<sub>44</sub>H<sub>69</sub>N<sub>12</sub>O<sub>12</sub> · 12H<sub>2</sub>O **Batch MW:** 822.03

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

**TLC (R<sub>f</sub>):** 0.45 DCM/MeOH (9/1)

**Chemical Purity:** 99.0%

**Optical Purity (ee):**

**<sup>1</sup>H-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	80.4	>100 mM	
	EtOH			Not Tested

**Remarks:** CAS number monohydrate 109581-93-3

**QC Date:** 24-4-2014

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**