



Certificate of Analysis

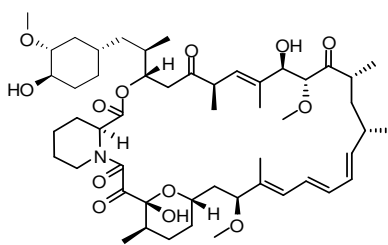
Axon Catalogue ID: 2069 **Batch Number:** 1

Product Name: Rapamycin

Alternative Name(s): Sirolimus

IUPAC Name: (3S,6R,7E,9R,10R,12R,14S,15E,17E,19E,21S,23S,26R,27R,34aS)-9,10,12,13,14,21,22,23,24,25,26,27,32,33,34,34a-Hexadecahydro-9,27-dihydroxy-3-[(1R)-2-[(1S,3R,4R)-4-hydroxy-3-methoxycyclohexyl]-1-methylethyl]-10,21-dimethoxy-6,8,12,14,20,26-hexamethyl-23,27-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclo-hentriacontine-1,5,11,28,29(4H,6H,31H)-pentone

Structure:



Amount:

CAS number(s): 53123-88-9

Molecular Formula: C₅₁H₇₉NO₁₃ **Molecular Weight:** 914.17

Batch Molecular Formula: C₅₁H₇₉NO₁₃.H₂O **Batch Molecular Weight:** 932.19

Appearance: Light-yellow solid **Observed mp:** 174 - 176 °C

TLC (R_f): 0.66 DCM/MeOH (9:1)

Chemical Purity: 98.0%

Optical Purity (ee): Optically pure

¹H-NMR: Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 65.71, H 8.76, N 1.50; Found: C 65.86, H 8.91, N 1.39

Storage Conditions: Store at -20 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water			Not Tested
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)			Not Tested
DMSO	66.7	71.5	
EtOH			Not Tested

Remarks:

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