



Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100766	Sirolimus	TZC50330

Chemical 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] oxazacyclohentriacontine-1,5,11,28,29 (4H,6H,31H)-pentone	
Synonyms	
RAPA, RAP, RPM, SLM, AY 22989, AY22989, AY-22989, SILA 9268A, WY-090217, WY090217, WY 090217, C07909, D00753, sirolimus, rapamycin, Rapamune	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100766 Name: Sirolimus (Rapamycin) CAS#: 53123-88-9 Lot#: TZC50330 Chemical Formula: C ₅₁ H ₇₉ NO ₁₃ Exact Mass: 913.55514 Molecular Weight: 914.17

Analysis item	Specifications / Results
Appearance	White solid powder.
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Solubility	Soluble in DMSO.
Conclusion	This product conforms with MedKoo's quality standards.
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE