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## CERTIFICATE OF ANALYSIS

Analysis Date:

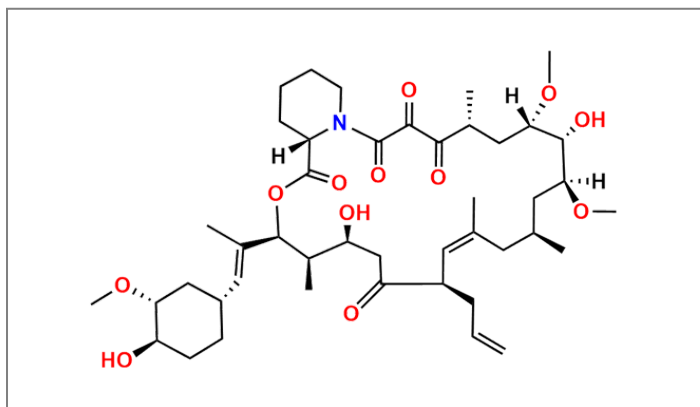
Re-test Date:

**Product Name: Tacrolimus Ring-Opening Impurity**

### Identification:

Chemical Name: (3S,4R,5S,8R,12S,14S,15R,16S,18R,26aS,Z)-8-Allyl-5,15-dihydroxy-3-((E)-1-((1R,3R,4R)-4-hydroxy-3-methoxycyclohexyl)prop-1-en-2-yl)-14,16-dimethoxy-4,10,12,18-tetramethyl-5,6,11,12,13,14,15,16,17,18,24,25,26,26a-tetradecahydro-3H-pyrido[2,1-c][1]oxa[4]azacyclotricosine-1,7,19,20,21(4H,8H,23H)-pentaone

Synonyms : NA  
CAS Number : 1393890-33-9  
CAT Number : CP-T39007  
Molecular Formula : C<sub>44</sub>H<sub>69</sub>NO<sub>12</sub>  
Molecular Weight : 804.03



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure

### Prepared and Reviewed By

### Approved By



Ms Priyanka Salunkhe  
(Manager QC Analytical)

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.