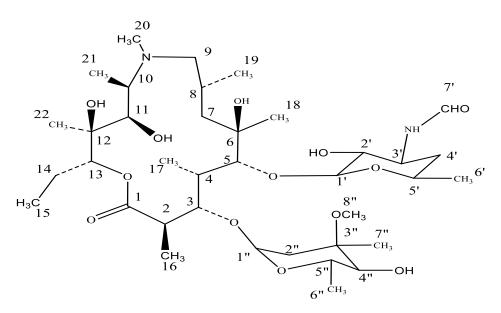
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Structure Elucidation report: Azithromycin Impurity M



3'-N,N-Di(desmethyl)-3'-N-formyl Azithromycin

Objective : To Elucidate the structure 3'-N,N-Di(desmethyl)-3'-N-formyl Azithromycin M	
Methodology: 3'-N,N-Di(desmethyl)-3'-N-formyl Azithromycin M was Subject to MS,NMR and spectral Analysis	
based on the spectral studies 3'-N,N-Di(desmethyl)-3'-N-formyl Azithromycin M was charterised.	
Batch No	AZE-IMP-M/AZI-M-00176
Molecular Formula:	$C_{37}H_{68}N_2O_{13}$
Molecular Weight:	748.9
Test & Results	Conclusions
Mass Analysis: electro spray ionization in +ve mode is 749.3 (M+H) ⁺	The protonated molecular ion observed at m/z 749.3 corroborates with the expected molecular weight of 748.95, corresponding to a molecular formula of C ₃₇ H ₆₈ N ₂ O ₁₃
¹ H NMR in CDCl ₃ (400 MHz, δ ppm) 7.99, 7.86 (H7', 1H, dd) 0.58-5.10 (67H)	Confirms to structure
IR analysis: 3404 peak for N-H stretch 1720 peak for C=O stretch	Confirms to structure