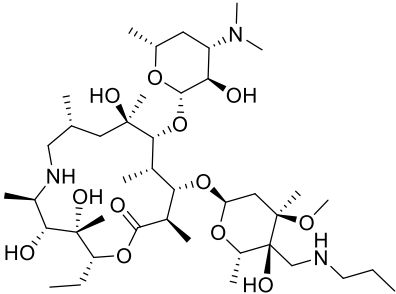




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
561476	Tulathromycin A	C21R11B17

Chemical name	
(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-11-[(2S,3R,4S,6R)-4-(Dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-2-ethyl-3,4,10-trihydroxy-13-[(2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyl-5-(propylaminomethyl)oxan-2-yl]oxy-3,5,8,10,12,14-hexamethyl-1-oxa-6-azacyclopentadecan-15-one	
Synonyms	
Tulathromycin; Draxxin; Tulathromycin A; CP-472,295; CP-472295; CP 472295; CP472295	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 561476 Name: Tulathromycin A CAS#: 217500-96-4 Lot#: C21R11B17 Chemical Formula: C ₄₁ H ₇₉ N ₃ O ₁₂ Exact Mass: 805.5664 Molecular Weight: 806.09

Analysis item	Specifications / Results
Appearance	White to off 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	>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 3 years if properly stored.

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