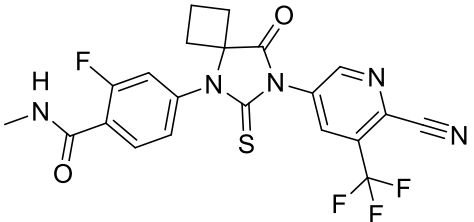




Certificate of Analysis

MedKoo Cat#:	Product Name:	
204420	Apalutamide (ARN-509)	TZC21210

Chemical name	
4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluoro-N-methylbenzamide	
Synonyms	
ARN509; ARN 509; ARN-509; JNJ56021927; JNJ-56021927; JNJ 56021927; Apalutamide	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 204420 Name: Apalutamide CAS#: 956104-40-8 Lot#TZC21210 Chemical Formula: C ₂₁ H ₁₅ F ₄ N ₅ O ₂ S Exact Mass: 477.08826 Molecular Weight: 477.43

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 (HPLC)	>99.0%
Solubility	Soluble in DMSO.
Conclusion	This product conforms with MedKoo's quality's 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
Self life	At least 5 years if properly stored.

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