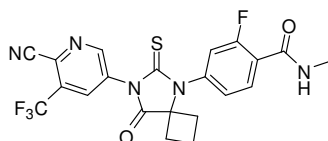




Certificate of Analysis

Axon Catalogue ID: 1979 **Batch Number:** 1
Product Name: ARN 509
Alternative Name(s): Apalutamide; JNJ-56021927
IUPAC 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

Structure:



Amount:

CAS number(s): 956104-40-8
Molecular Formula: C₂₁H₁₅F₄N₅O₂S **Molecular Weight:** 477.43
Batch Molecular Formula: C₂₁H₁₅F₄N₅O₂S.1H₂O **Batch Molecular Weight:** 495.45
Appearance: White solid **Observed mp:** 165.0 - 167.0 °C
TLC (R_f): 0.25 DCM/MeOH (9:1)
Chemical Purity: 99.8%
Optical Purity (ee): N.A.
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 50.91, H 3.46, N 14.14; Found: C 50.92, H 3.39, N 14.00

Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	49.5	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 11-05-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only