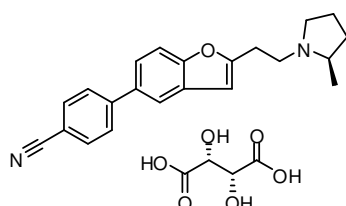


Certificate of Analysis

Axon Catalogue ID: 1510 **Batch Number:** 2
Product Name: ABT 239 tartrate
Alternative Name(s): N.A.
IUPAC Name: (R)-4-(2-(2-(2-Methylpyrrolidin-1-yl)ethyl)benzofuran-5-yl)benzonitrile tartrate

Structure:



Amount:

CAS number(s): 460746-46-7 (parent), 460748-71-4 (tartrate (1:1))
Molecular Formula: C₂₂H₂₂N₂O₆.C₄H₆O₆ **Molecular Weight:** 480.51
Batch Molecular Formula: C₂₂H₂₂N₂O₆.C₄H₆O₆.0.5H₂O **Batch Molecular Weight:** 489.52
Appearance: Off-white solid **Observed mp:** 152 - 154 °C
TLC (R_f): 0.69 DCM/MeOH (4:1)
Chemical Purity: 98.3%
Optical Purity (ee): >98%
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 63.79, H 5.97, N 5.72; Found: C 63.41, H 6.24, N 5.69
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	5.6	11.4	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	49.0	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 28-03-2019

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