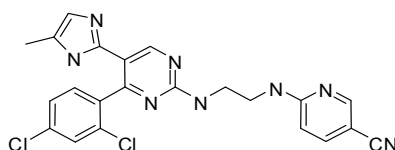




Certificate of Analysis

Axon Catalogue ID: 1386 **Batch Number:** 8
Product Name: CHIR 99021
Alternative Name(s): CT 99021
IUPAC Name: 3-Pyridinecarbonitrile, 6-[[2-[[4-(2,4-dichlorophenyl)-5-(5-methyl-1H-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]-

Structure:



Amount:

CAS number: 252917-06-9
Batch Molecular Formula: C₂₂H₁₈Cl₂N₈ **Batch MW:** 465.35
Appearance: Off-white solid **Observed mp:** >255 °C (decomp)
TLC (R_f): 0.6 EtOAc/THF (1:1)
Chemical Purity: 99.1%
Optical Purity (ee):
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 56.78 , H 3.90 , N 24.07 Found: C 56.65 , H 3.70 , N 24.14
Storage Conditions: Store at -20°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	25.0	53.7	Requires warming
	EtOH			Not Tested

Remarks:

QC Date: 4-2-2014

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