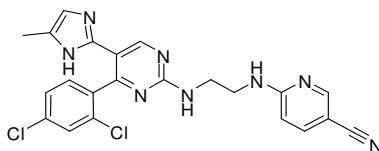


Certificate of Analysis

Axon Catalogue ID: 1386 **Batch Number:** 12
Product Name: CHIR99021
Alternative Name(s): CT99021; Laduviglusib
IUPAC Name: 6-{2-[4-(2,4-Dichloro-phenyl)-5-(5-methyl-1H-imidazol-2-yl)-pyrimidin-2-ylamino]-ethylamino}-nicotinonitrile

Structure:



Amount:

CAS number(s): 252917-06-9
Molecular Formula: C₂₂H₁₈Cl₂N₈ **Molecular Weight:** 465.34
Batch Molecular Formula: C₂₂H₁₈Cl₂N₈·0.25H₂O **Batch Molecular Weight:** 469.84
Appearance: Off-white solid **Observed mp:** >250 °C (decomp)
TLC (R_f): 0.6 EtOAc/THF (1:1)
Chemical Purity: 99.0%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 56.24, H 3.97, N 23.85; Found: C 56.29, H 3.84, N 23.66
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)	12.0	25.5	Sonication enhances solubility
	DMSO	15.0	31.9	Warming enhances solubility
	EtOH	5.5	11.7	Warming enhances solubility

Remarks:

QC Date: 5-3-2020

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