



## Certificate of Analysis

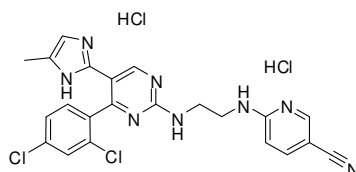
**Axon Catalogue ID:** 2435 **Batch Number:** 1

**Product Name:** CHIR99021 dihydrochloride

**Alternative Name(s):** CT99021 dihydrochloride; Laduviglusib dihydrochloride

**IUPAC Name:** 6-(2-(4-(2,4-Dichlorophenyl)-5-(5-methyl-1H-imidazol-2-yl)pyrimidin-2-ylamino)ethylamino)nicotinonitrile dihydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 252917-06-9 (parent)

**Molecular Formula:** C<sub>22</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>8</sub>.2HCl **Molecular Weight:** 538.26

**Batch Molecular Formula:** C<sub>22</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>8</sub>.2HCl.H<sub>2</sub>O **Batch Molecular Weight:** 556.28

**Appearance:** Off-white solid **Observed mp:** 216 - 218 °C

**TLC (R<sub>f</sub>):** 0.5 DCM/MeOH (9:1)

**Chemical Purity:** 98.4%

**Optical Purity (ee):** N.A.

**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure

**Mass Spec:** Analytical data confirm chemical structure

**Microanalysis:** Calculated: C 47.50, H 3.99, N 20.14; Found: C 47.34, H 3.85, N 19.86

**Storage Conditions:** Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	30.0	53.9	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	36.0	64.7	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 3-6-2020

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**