



Certificate of Analysis

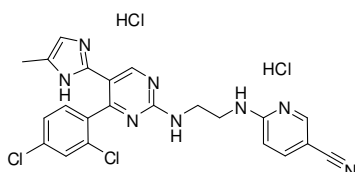
Axon Catalogue ID: 2435 **Batch Number:** 2

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), 2109414-84-6 (HCl (1:2))

Molecular Formula: C₂₂H₁₈Cl₂N₈.2HCl **Molecular Weight:** 538.26

Batch Molecular Formula: C₂₂H₁₈Cl₂N₈.2HCl **Batch Molecular Weight:** 538.26

Appearance: White solid **Observed mp:** 210.0 - 212.3 °C

TLC (R_f): 0.6 DCM/MeOH (9:1)

Chemical Purity: 99.4%

Optical Purity (ee): N.A.

¹H-NMR: Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 49.09, H 3.75, N 20.82; Found: C 49.10, H 4.04, N 20.94

Storage Conditions: Store at -20 °C

| Solubility Data: | Solvent | Solubility (mg/ml) | Solubility (mM) | Remarks |
|------------------|----------------|--------------------|-----------------|------------|
| | Water | 20.0 | 37.2 | |
| | 0.1N NaOH (aq) | | | Not Tested |
| | 0.1N HCl (aq) | | | Not Tested |
| | DMSO | 42.0 | 78.0 | |
| | EtOH | | | Not Tested |

Remarks:

QC Date: 22-2-2021

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