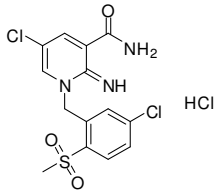


## Certificate of Analysis

<b>Axon Catalogue ID:</b>	2579	<b>Batch Number:</b>	1
<b>Product Name:</b>	TAK 259		
<b>Alternative Name(s):</b>	N.A.		
<b>IUPAC Name:</b>	5-Chloro-1-(5-chloro-2-(methylsulfonyl)benzyl)-2-imino-1,2-dihydropyridine-3-carboxamide hydrochloride		
<b>Structure:</b>			<b>Amount:</b>
<b>CAS number(s):</b>	1192348-73-4 (parent), 1192347-42-4 (HCl (1:1))		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub> S.HCl	<b>Molecular Weight:</b>	410.70
<b>Batch Molecular Formula:</b>	C <sub>14</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub> S.HCl.0.5H <sub>2</sub> O	<b>Batch Molecular Weight:</b>	419.71
<b>Appearance:</b>	Off-white solid	<b>Observed mp:</b>	> 270 °C (decomp)
<b>TLC (R<sub>f</sub>):</b>	0.4	DCM/MeOH (4:1)	
<b>Chemical Purity:</b>	99.6%		
<b>Optical Purity (ee):</b>	N.A.		
<b><sup>1</sup>H-NMR (300 MHz):</b>	Analytical data confirm chemical structure		
<b>Mass Spec:</b>	Analytical data confirm chemical structure		
<b>Microanalysis:</b>	Calculated: C 40.06, H 3.60, N 10.01; Found: C 39.71, H 3.27, N 9.95		
<b>Storage Conditions:</b>	Desiccate at +4 °C		
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>
	Water	3.7	8.8
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	7.4	17.6
	EtOH		Not Tested
<b>Remarks:</b>			
<b>QC Date:</b>	28-10-2021		

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

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