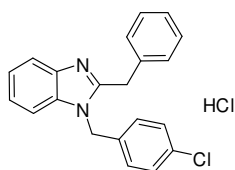




## Certificate of Analysis

**Axon Catalogue ID:** 2055 **Batch Number:** 1  
**Product Name:** Q94 hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 2-Benzyl-1-(4-chlorobenzyl)-1H-benzo[d]imidazole hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 537009-12-4 (parent), 1052076-77-3 (HCl (1:1))  
**Molecular Formula:** C<sub>21</sub>H<sub>17</sub>ClN<sub>2</sub> HCl **Molecular Weight:** 369.29  
**Batch Molecular Formula:** C<sub>21</sub>H<sub>17</sub>ClN<sub>2</sub>.HCl.1H<sub>2</sub>O **Batch Molecular Weight:** 387.30  
**Appearance:** White solid **Observed mp:** 200 - 202 °C  
**TLC (R<sub>f</sub>):** 0.63 Hex/EtOAc (1:1)  
**Chemical Purity:** 99.3%  
**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 65.12, H 5.20, N 7.23, Cl 18.13; Found: C 65.07, H 5.12, N 7.12, Cl 18.43  
**Storage Conditions:** Store at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	33.3	86.0	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 06-10-2020

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**