

## Certificate of Analysis

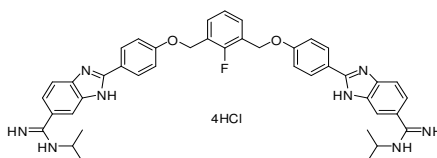
**Axon Catalogue ID:** 3546 **Batch Number:** 1

**Product Name:** DB2313 hydrochloride

**Alternative Name(s):** N.A.

**IUPAC Name:** 2,2'-(4,4'-(2-Fluoro-1,3-phenylene)bis(methylene)bis(oxy)bis(4,1-phenylene))bis(N-isopropyl-1H-benzo[d]imidazole-6-carboximidamide) tetrahydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 2170606-74-1 (parent), 2170606-75-2 (HCl (1:4))

**Molecular Formula:** C<sub>42</sub>H<sub>41</sub>FN<sub>8</sub>O<sub>2</sub>·4HCl **Molecular Weight:** 854.67

**Batch Molecular Formula:** C<sub>42</sub>H<sub>41</sub>FN<sub>8</sub>O<sub>2</sub>·3.5HCl·2.5H<sub>2</sub>O **Batch Molecular Weight:** 881.48

**Appearance:** Light-grey solid **Observed mp:** 265.5 - 268.5 °C

**TLC (R<sub>f</sub>):** 0.4 nBuOH/H<sub>2</sub>O/AcOH (7:2:1)

**Chemical Purity:** 98.3%

**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure

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

**Microanalysis:** Calculated: C 57.23, H 5.66, N 12.71, Cl 14.08; Found: C 57.72, H 5.76, N 12.67, Cl 13.60

**Storage Conditions:** Desiccate 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)			Not Tested
	DMSO	29.3	33.2	
	EtOH	0.0	0.0	Insoluble

**Remarks:**

**QC Date:** 27-6-2024

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**