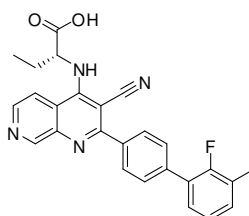




## Certificate of Analysis

**Axon Catalogue ID:** 3778 **Batch Number:** 1  
**Product Name:** BAY-091  
**Alternative Name(s):** N.A.  
**IUPAC Name:** (R)-2-(3-Cyano-2-(2'-fluoro-3'-methylbiphenyl-4-yl)-1,7-naphthyridin-4-ylamino)butanoic acid

**Structure:**



**Amount:**

**CAS number(s):** N.A.  
**Molecular Formula:** C<sub>26</sub>H<sub>21</sub>FN<sub>4</sub>O<sub>2</sub> **Molecular Weight:** 440.47  
**Batch Molecular Formula:** C<sub>26</sub>H<sub>21</sub>FN<sub>4</sub>O<sub>2</sub>·0.75H<sub>2</sub>O **Batch Molecular Weight:** 453.98  
**Appearance:** Beige solid **Observed mp:** >140 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.3 DCM/MeOH/AcOH (9:1:0.1)  
**Chemical Purity:** 98.9%  
**Optical Purity (ee):** 98.5%  
**Optical Rotation (Det.):** [α]<sub>D</sub> = +132.5° with c = 1 in DMSO  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 68.79, H 5.00, N 12.34; Found: C 68.81, H 4.73, N 12.54  
**Storage Conditions:** Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	0.0	0.0	Insoluble
	0.1N HCl (aq)	0.0	0.0	Insoluble
	DMSO	45.4	>100 mM	
	EtOH	45.4	>100 mM	

**Remarks:**

**QC Date:** 6-12-2022

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**