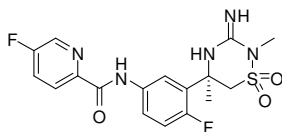




## Certificate of Analysis

**Axon Catalogue ID:** 4166 **Batch Number:** 1  
**Product Name:** Verubecestat  
**Alternative Name(s):** MK8931  
**IUPAC Name:** N-[3-[(5R)-3-amino-2,5-dimethyl-1,1-dioxo-6H-1,2,4-thiadiazin-5-yl]-4-fluorophenyl]-5-fluoropyridine-2-carboxamide

**Structure:**



**Amount:**

**CAS number(s):** 1286770-55-5  
**Molecular Formula:** C<sub>17</sub>H<sub>17</sub>F<sub>2</sub>N<sub>5</sub>O<sub>3</sub>S **Molecular Weight:** 409.41  
**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>F<sub>2</sub>N<sub>5</sub>O<sub>3</sub>S **Batch Molecular Weight:** 409.41  
**Appearance:** White solid **Observed mp:** 162 - 164 °C  
**TLC (R<sub>f</sub>):** 0.55 DCM/MeOH (9:1)  
**Chemical Purity:** 99.5%  
**Optical Purity (ee):** Optically pure  
**Optical Rotation (Det.):** [α]<sub>D</sub> = +46.4° with c = 0.5 in MeOH  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 49.87, H 4.19, N 17.11; Found: C 49.86, H 4.07, N 17.01  
**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)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	40.9	>100 mM	
	EtOH	8.9	21.7	

**Remarks:** Contains 0.41 wt% of ethyl acetate, determined by NMR.

**QC Date:** 7-3-2024

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**