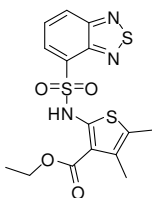


## Certificate of Analysis

**Axon Catalogue ID:** 3981 **Batch Number:** 1  
**Product Name:** Calcium influx inducer compound 634  
**Alternative Name(s):** N.A.  
**IUPAC Name:** Ethyl 2-(benzo[c][1,2,5]thiadiazole-4-sulfonamido)-4,5-dimethylthiophene-3-carboxylate

**Structure:**



**Amount:**

**CAS number(s):** 882291-37-4  
**Molecular Formula:** C<sub>15</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>S<sub>3</sub> **Molecular Weight:** 397.49  
**Batch Molecular Formula:** C<sub>15</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>S<sub>3</sub> **Batch Molecular Weight:** 397.49  
**Appearance:** Yellow solid **Observed mp:** 145 °C  
**TLC (R<sub>f</sub>):** 0.26 Hex/EtOAc (4:1)  
**Chemical Purity:** 99.7%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 45.32, H 3.80, N 10.57; Found: C 45.42, H 3.78, N 10.56  
**Storage Conditions:** Store at +4 °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	39.7	>100 mM	
	EtOH	5.6	14.1	* Warming (40°C)

**Remarks:** \* Warming (40°C) enhanced solubility.

**QC Date:** 18-12-2023

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**