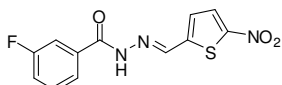




## Certificate of Analysis

**Axon Catalogue ID:** 3910 **Batch Number:** 1  
**Product Name:** MitoBloCK-10  
**Alternative Name(s):** MB-10  
**IUPAC Name:** 3-Fluoro-N'-((5-nitrothiophen-2-yl)methylene)benzohydrazide

**Structure:**



**Amount:**

**CAS number(s):** 394694-98-5  
**Molecular Formula:** C<sub>12</sub>H<sub>8</sub>FN<sub>3</sub>O<sub>3</sub>S **Molecular Weight:** 293.27  
**Batch Molecular Formula:** C<sub>12</sub>H<sub>8</sub>FN<sub>3</sub>O<sub>3</sub>S **Batch Molecular Weight:** 293.27  
**Appearance:** Yellow solid **Observed mp:** 236 °C  
**TLC (R<sub>f</sub>):** 0.34 DCM/MeOH (20:1)  
**Chemical Purity:** 99.7%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 49.14, H 2.75, N 14.33; Found: C 49.11, H 2.90, N 14.31  
**Storage Conditions:** Store at -20 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	0.0	0.0	Insoluble
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)	0.0	0.0	Insoluble
DMSO	29.3	>100 mM	
EtOH	5.0	17.0	* Warming (40°C)

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

**QC Date:** 14-6-2023

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**