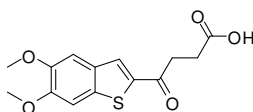




## Certificate of Analysis

**Axon Catalogue ID:** 3298 **Batch Number:** 2  
**Product Name:** MSA-2  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 4-(5,6-Dimethoxybenzo[b]thiophen-2-yl)-4-oxobutanoic acid

**Structure:**



**Amount:**

**CAS number(s):** 129425-81-6  
**Molecular Formula:** C<sub>14</sub>H<sub>14</sub>O<sub>5</sub>S **Molecular Weight:** 294.32  
**Batch Molecular Formula:** C<sub>14</sub>H<sub>14</sub>O<sub>5</sub>S **Batch Molecular Weight:** 294.32  
**Appearance:** Beige solid **Observed mp:** 172 - 174 °C  
**TLC (R<sub>f</sub>):** 0.6 DCM/MeOH (9:1)  
**Chemical Purity:** 99.2%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 57.13, H 4.79, N 0.00; Found: C 56.93, H 4.72, N <0.10  
**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility		Remarks
		(mg/ml)	(mM)	
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	14.0	47.6	Not Tested
	0.1N HCl (aq)			
	DMSO	29.4	>100 mM	
	EtOH	2.0	6.8	

**Remarks:**

**QC Date:** 8-12-2021

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**