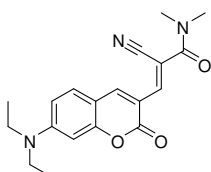




## Certificate of Analysis

**Axon Catalogue ID:** 2756 **Batch Number:** 1  
**Product Name:** Fluorescent probe QG-1  
**Alternative Name(s):** QG-1  
**IUPAC Name:** (E)-2-Cyano-3-(7-(diethylamino)-2-oxo-2H-chromen-3-yl)-N,N-dimethylacrylamide

**Structure:**



**Amount:**

**CAS number(s):** 2098563-70-1  
**Molecular Formula:** C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub> **Molecular Weight:** 339.39  
**Batch Molecular Formula:** C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub> **Batch Molecular Weight:** 339.39  
**Appearance:** Orange solid **Observed mp:** 138 - 140 °C  
**TLC (R<sub>f</sub>):** 0.3 Hex/EtOAc (1:1)  
**Chemical Purity:** 99.1%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 67.24, H 6.24, N 12.38; Found: C 67.26, H 6.29, N 12.38  
**Storage Conditions:** Desiccate at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	20.6	60.7	Sonication enhances solubility
	EtOH			Not Tested

**Remarks:**

**QC Date:** 9-12-2022

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**