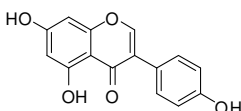




## Certificate of Analysis

**Axon Catalogue ID:** 3632 **Batch Number:** 1  
**Product Name:** Genistein  
**Alternative Name(s):** NPI031L  
**IUPAC Name:** 5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-chromen-4-one

**Structure:**



**Amount:**

**CAS number(s):** 446-72-0  
**Molecular Formula:** C<sub>15</sub>H<sub>10</sub>O<sub>5</sub> **Molecular Weight:** 270.24  
**Batch Molecular Formula:** C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>.0.25H<sub>2</sub>O **Batch Molecular Weight:** 274.74  
**Appearance:** Light-pink solid **Observed mp:** 300 °C  
**TLC (R<sub>f</sub>):** 0.24 DCM/MeOH (20:1)  
**Chemical Purity:** 98.8%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 65.57, H 3.85, N 0.00; Found: C 65.78, H 3.94, N <0.10  
**Storage Conditions:** Desiccate at -20 °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	27.5	>100 mM	
	EtOH	13.0	47.3	

**Remarks:**

**QC Date:** 28-6-2022

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**