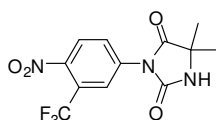




## Certificate of Analysis

**Axon Catalogue ID:** 3249 **Batch Number:** 1  
**Product Name:** Nilutamide  
**Alternative Name(s):** RU-23908; Anandron  
**IUPAC Name:** 5,5-Dimethyl-3-(4-nitro-3-(trifluoromethyl)phenyl)imidazolidine-2,4-dione

**Structure:**



**Amount:**

**CAS number(s):** 63612-50-0  
**Molecular Formula:** C<sub>12</sub>H<sub>10</sub>F<sub>3</sub>N<sub>3</sub>O<sub>4</sub> **Molecular Weight:** 317.22  
**Batch Molecular Formula:** C<sub>12</sub>H<sub>10</sub>F<sub>3</sub>N<sub>3</sub>O<sub>4</sub> **Batch Molecular Weight:** 317.22  
**Appearance:** Orange solid **Observed mp:** 153.8 - 154.7 °C  
**TLC (R<sub>f</sub>):** 0.8 DCM/MeOH (20:1)  
**Chemical Purity:** 99.6%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 45.43, H 3.18, N 13.25; Found: C 45.61, H 2.91, N 13.07  
**Storage Conditions:** Store 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	31.7	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 10-12-2020

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**