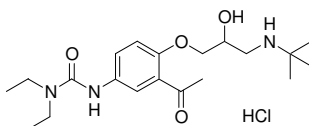




## Certificate of Analysis

**Axon Catalogue ID:** 1159 **Batch Number:** 1  
**Product Name:** Celiprolol hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 3-(3-Acetyl-4-(3-(tert-butylamino)-2-hydroxypropoxy)phenyl)-1,1-diethylurea hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 56980-93-9 (parent), 57470-78-7 (HCl (1:1))  
**Molecular Formula:** C20G33N3O4.HCl **Molecular Weight:** 415.95  
**Batch Molecular Formula:** C20G33N3O4.HCl **Batch Molecular Weight:** 415.95  
**Appearance:** Off-white solid **Observed mp:** 196.1 - 198.2 °C  
**TLC (R<sub>f</sub>):** -  
**Chemical Purity:** 98.4%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 57.75, H 8.24, N 10.10; Found: C ND, H ND, N ND  
**Storage Conditions:** Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	41.6	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	41.6	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 14-11-2023

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**