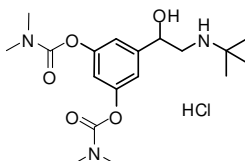




## Certificate of Analysis

**Axon Catalogue ID:** 4204 **Batch Number:** 1  
**Product Name:** Bambuterol hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 5-(2-(Tert-butylamino)-1-hydroxyethyl)-1,3-phenylene bis(dimethylcarbamate) hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 81732-65-2 (parent), 81732-46-9 (HCl (1:1))  
**Molecular Formula:** C<sub>18</sub>H<sub>29</sub>N<sub>3</sub>O<sub>5</sub>.HCl **Molecular Weight:** 403.90  
**Batch Molecular Formula:** C<sub>18</sub>H<sub>29</sub>N<sub>3</sub>O<sub>5</sub>.HCl **Batch Molecular Weight:** 403.90  
**Appearance:** White solid **Observed mp:** 230.0 - 231.1 °C  
**TLC (R<sub>f</sub>):** 0.48 BuOH/H<sub>2</sub>O/AcOH (7:2:1)  
**Chemical Purity:** 98.6%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 53.53, H 7.49, N 10.40; Found: C 53.26, H 7.49, N 10.53  
**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	40.0	99.0	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	22.4	55.5	
	EtOH	4.7	11.6	

**Remarks:**

**QC Date:** 19-6-2024

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**