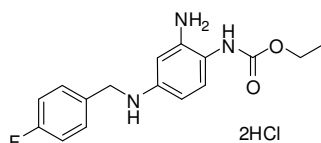




## Certificate of Analysis

**Axon Catalogue ID:** 2252 **Batch Number:** 1  
**Product Name:** Retigabine dihydrochloride  
**Alternative Name(s):** D 23129 hydrochloride; Ezogabine dihydrochloride  
**IUPAC Name:** Ethyl 2-amino-4-(4-fluorobenzylamino)phenylcarbamate dihydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 150812-12-7 (parent), 150812-13-8 (HCl (1:2))  
**Molecular Formula:** C<sub>16</sub>H<sub>18</sub>FN<sub>3</sub>O<sub>2</sub>·2HCl **Molecular Weight:** 376.25  
**Batch Molecular Formula:** C<sub>16</sub>H<sub>18</sub>FN<sub>3</sub>O<sub>2</sub>·2HCl **Batch Molecular Weight:** 376.25  
**Appearance:** Light-pink solid **Observed mp:** 208 °C  
**TLC (R<sub>f</sub>):** 0.44 DCM/MeOH (20:1)  
**Chemical Purity:** 98.7%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 51.07, H 5.36, N 11.17; Found: C 50.77, H 5.23, N 11.07  
**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	37.6	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	37.6	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 16-08-2019

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**