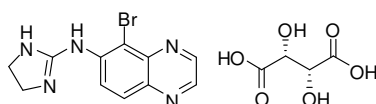




## Certificate of Analysis

**Axon Catalogue ID:** 1555 **Batch Number:** 1  
**Product Name:** Brimonidine tartrate  
**Alternative Name(s):** Alphagan-P  
**IUPAC Name:** 5-Bromo-N-(4,5-dihydro-1H-imidazol-2-yl)quinoxalin-6-amine (2R,3R)-2,3-dihydroxysuccinate

**Structure:**



**Amount:**

**CAS number(s):** 59803-98-4 (parent), 70359-46-5 (tartrate salt (1:1))  
**Molecular Formula:** C<sub>11</sub>H<sub>10</sub>BrN<sub>5</sub>.C<sub>4</sub>H<sub>6</sub>O<sub>6</sub> **Molecular Weight:** 442.22  
**Batch Molecular Formula:** C<sub>11</sub>H<sub>10</sub>BrN<sub>5</sub>.C<sub>4</sub>H<sub>6</sub>O<sub>6</sub> **Batch Molecular Weight:** 442.22  
**Appearance:** Off-white solid **Observed mp:** 206.3 - 207.5 °C  
**TLC (R<sub>f</sub>):** N.A. Salt form  
**Chemical Purity:** 99.5%  
**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 40.74, H 3.65, N 15.84; Found: C ND, H ND, N ND  
**Storage Conditions:** Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water		30.0	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	28.0	63.3	Soluble, yielding a yellow solution.
	EtOH			Not Tested

**Remarks:**

**QC Date:** 11-01-2019

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**