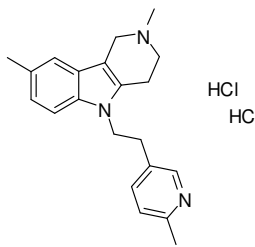


## Certificate of Analysis

<b>Axon Catalogue ID:</b>	1445	<b>Batch Number:</b>	1
<b>Product Name:</b>	Dimebon		
<b>Alternative Name(s):</b>	Dimebolin hydrochloride		
<b>IUPAC Name:</b>	2,8-Dimethyl-5-(2-(6-methylpyridin-3-yl)ethyl)-2,3,4,5-tetrahydro-1H-pyrido[4,3-b]indole dihydrochloride		
<b>Structure:</b>	 <p>HCl HCl</p>		<b>Amount:</b>
<b>CAS number(s):</b>	3613-73-8 (parent), 97657-92-6 (HCl (1:2))		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>25</sub> N <sub>3</sub> .2HCl	<b>Molecular Weight:</b>	392.37
<b>Batch Molecular Formula:</b>	C <sub>21</sub> H <sub>25</sub> N <sub>3</sub> .2HCl	<b>Batch Molecular Weight:</b>	392.37
<b>Appearance:</b>	Off-white solid	<b>Observed mp:</b>	>220 °C (decomp)
<b>TLC (R<sub>f</sub>):</b>	0.5	DCM/MeOH (9:1)	
<b>Chemical Purity:</b>	99.5%		
<b>Optical Purity (ee):</b>	N.A.		
<b><sup>1</sup>H-NMR (300 MHz):</b>	Analytical data confirm chemical structure		
<b>Mass Spec:</b>	Analytical data confirm chemical structure		
<b>Microanalysis:</b>	Calculated: C 64.28, H 6.94, N 10.71; Found: C ND, H ND, N ND		
<b>Storage Conditions:</b>	Desiccate at +4 °C		
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b> <b>Remarks</b>
	Water		>100
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO		Not Tested
	EtOH		Not Tested
<b>Remarks:</b>			
<b>QC Date:</b>	28-07-2009		

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**