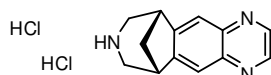




Certificate of Analysis

Axon Catalogue ID: 1384 **Batch Number:** 3
Product Name: Varenicline dihydrochloride
Alternative Name(s): Chantix; Champix
IUPAC Name: 7,8,9,10-Tetrahydro-6,10-methano-6H-pyrazino(2,3-h)(3)benzazepine dihydrochloride

Structure:



Amount:

CAS number(s): 249296-44-4 (parent), 866823-63-4 (HCl (1:2))
Molecular Formula: C₁₃H₁₃N₃.2HCl **Molecular Weight:** 284.18
Batch Molecular Formula: C₁₃H₁₃N₃.2HCl **Batch Molecular Weight:** 284.18
Appearance: Off-white solid **Observed mp:** >290 °C (decomp)
TLC (R_f): 0.1 DCM/MeOH (9:1)
Chemical Purity: 100%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 51.67, H 5.67, N 13.90; Found: C 51.69, H 5.42, N 13.85
Storage Conditions: Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	28.4	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	20.0	70.4	
	EtOH			Not Tested

Remarks:

QC Date: 12-11-2018

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 indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only