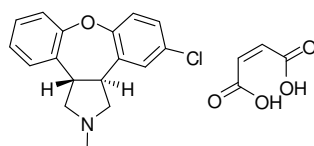


Certificate of Analysis

Axon Catalogue ID: 1503 **Batch Number:** 1
Product Name: Asenapine maleate
Alternative Name(s): ORG 5222
IUPAC Name: (3aS,12bS)-5-Chloro-2,3,3a,12b-tetrahydro-2-methyl-1H-dibenz[2,3:6,7]oxepino[4,5-c]pyrrole maleate

Structure:



Amount:

CAS number(s): 65576-45-6 (parent), 85650-56-2 (maleate (1:1))
Molecular Formula: C₁₇H₁₆ClNO.C₄H₄O₄ **Molecular Weight:** 401.84
Batch Molecular Formula: C₁₇H₁₆ClNO.C₄H₄O₄ **Batch Molecular Weight:** 401.84
Appearance: White solid **Observed mp:** 144 - 145 °C
TLC (R_f): 0.15 DCM/MeOH (9:1)
Chemical Purity: 99.5%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 62.77, H 5.02, N 3.49; Found: C ND, H ND, N ND
Storage Conditions: Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	22.0	54.7	
	EtOH			Not Tested

Remarks:

QC Date: 26-02-2018

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