

## Certificate of Analysis

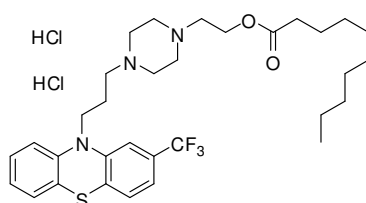
**Axon Catalogue ID:** 2127 **Batch Number:** 1

**Product Name:** Fluphenazine decanoate dihydrochloride

**Alternative Name(s):** Prolixin Decanoate dihydrochloride

**IUPAC Name:** 2-(4-(3-(2-(Trifluoromethyl)-10H-phenothiazin-10-yl)propyl)piperazin-1-yl)ethyl decanoate dihydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 5002-47-1 (parent), 2376-65-0 (HCl (1:2))

**Molecular Formula:** C<sub>32</sub>H<sub>44</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>S.2HCl **Molecular Weight:** 664.69

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**Appearance:** White solid **Observed mp:** 169.5 - 171.2 °C

**TLC (R<sub>f</sub>):** 0.7 DCM/MeOH (20:1)

**Chemical Purity:** 99.0%

**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 57.82, H 6.98, N 6.32; Found: C 58.10, H 7.08, N 6.20

**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	0.0	0.0	Insoluble
	DMSO	25.5	38.4	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 12-02-2020

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**