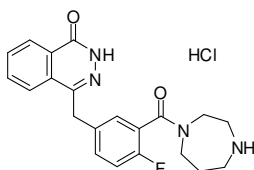




## Certificate of Analysis

**Axon Catalogue ID:** 2001 **Batch Number:** 4  
**Product Name:** KU-0058948 hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 4-(3-(1,4-Diazepane-1-carbonyl)-4-fluorobenzyl)phthalazin-1(2H)-one hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 763111-49-5 (parent), 2108829-86-1 (HCl (1:1))  
**Molecular Formula:** C<sub>21</sub>H<sub>21</sub>FN<sub>4</sub>O<sub>2</sub>.HCl **Molecular Weight:** 416.88  
**Batch Molecular Formula:** C<sub>21</sub>H<sub>21</sub>FN<sub>4</sub>O<sub>2</sub>.HCl.0.5H<sub>2</sub>O **Batch Molecular Weight:** 425.88  
**Appearance:** White solid **Observed mp:** >165 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.23 DCM/MeOH/NH<sub>3</sub> (20:1:0.1)  
**Chemical Purity:** 100%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 59.22, H 5.44, N 13.16; Found: C 58.96, H 5.52, N 13.07  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	42.6	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	42.6	>100 mM	
	EtOH	17.0	39.9	

**Remarks:** Contains 0.95 wt% of methanol, determined by NMR. Suspected to be unstable in water. It is recommended to prepare fresh solutions for your experiments.

**QC Date:** 17-4-2024

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**