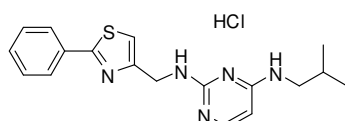




## Certificate of Analysis

**Axon Catalogue ID:** 2901 **Batch Number:** 2  
**Product Name:** KHS101 hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** N4-Isobutyl-N2-((2-phenylthiazol-4-yl)methyl)pyrimidine-2,4-diamine hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 1262770-73-9 (parent), 1784282-12-7 (HCl (1:1))  
**Molecular Formula:** C<sub>18</sub>H<sub>21</sub>N<sub>5</sub>.HCl **Molecular Weight:** 375.92  
**Batch Molecular Formula:** C<sub>18</sub>H<sub>21</sub>N<sub>5</sub>.HCl.0.25H<sub>2</sub>O **Batch Molecular Weight:** 380.42  
**Appearance:** Off-white solid **Observed mp:** 177 - 179 °C  
**TLC (R<sub>f</sub>):** 0.35 DCM/MeOH (9:1)  
**Chemical Purity:** 100%  
**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 56.83, H 5.96, N 18.41; Found: C 56.79, H 5.86, N 18.48  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	12.0	31.5	Warming to 40 °C enhances solubility
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	38.0	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 17-01-2019

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**