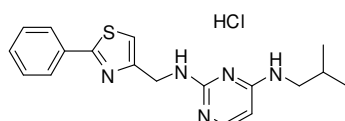




## Certificate of Analysis

**Axon Catalogue ID:** 2901 **Batch Number:** 1  
**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.0.5H<sub>2</sub>O **Batch Molecular Weight:** 384.93  
**Appearance:** Off-white solid **Observed mp:** 166 - 169 °C  
**TLC (R<sub>f</sub>):** 0.5 DCM/MeOH (9:1)  
**Chemical Purity:** 99.2%  
**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 56.16, H 6.02, N 18.19; Found: C 56.03, H 5.80, N 17.88  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	14.7	38.2	Sonication enhances solubility
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	38.5	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 06-12-2018

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**