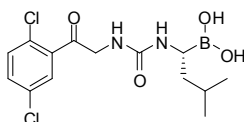




## Certificate of Analysis

**Axon Catalogue ID:** 2556 **Batch Number:** 1  
**Product Name:** MLN 2238  
**Alternative Name(s):** Ixazomib  
**IUPAC Name:** (R)-1-(3-(2-(2,5-dichlorophenyl)-2-oxoethyl)ureido)-3-methylbutylboronic acid

**Structure:**



**Amount:**

**CAS number(s):** 1072833-77-2 (parent)  
**Molecular Formula:** C<sub>14</sub>H<sub>19</sub>BCl<sub>2</sub>N<sub>2</sub>O<sub>4</sub> **Molecular Weight:** 361.03  
**Batch Molecular Formula:** C<sub>14</sub>H<sub>19</sub>BCl<sub>2</sub>N<sub>2</sub>O<sub>4</sub> **Batch Molecular Weight:** 361.03  
**Appearance:** White solid **Observed mp:** 120 - 122 °C  
**TLC (R<sub>f</sub>):** 0.3 DCM/MeOH (9:1)  
**Chemical Purity:** 98.8%  
**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 46.58, H 5.30, N 7.76; Found: C ND, H ND, N ND  
**Storage Conditions:** Store at -20 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	30.0	83.1	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 09-08-2016

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**