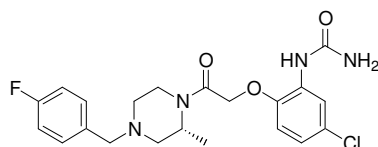




## Certificate of Analysis

**Axon Catalogue ID:** 2082 **Batch Number:** 1  
**Product Name:** BX 471  
**Alternative Name(s):** N.A.  
**IUPAC Name:** (R)-1-(5-Chloro-2-(2-(4-(4-fluorobenzyl)-2-methylpiperazin-1-yl)-2-oxoethoxy)phenyl)urea

**Structure:**



**Amount:**

**CAS number(s):** 217645-70-0  
**Molecular Formula:** C<sub>21</sub>H<sub>24</sub>ClFN<sub>4</sub>O<sub>3</sub> **Molecular Weight:** 434.89  
**Batch Molecular Formula:** C<sub>21</sub>H<sub>24</sub>ClFN<sub>4</sub>O<sub>3</sub>·0.25H<sub>2</sub>O **Batch Molecular Weight:** 439.40  
**Appearance:** Off-white solid **Observed mp:** 99 - 103 °C  
**TLC (R<sub>f</sub>):** 0.77 DCM/MeOH (9:1)  
**Chemical Purity:** 99.4%  
**Optical Purity (ee):** >99%  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 57.40, H 5.62, N 12.75; Found: C 57.12, H 5.57, N 12.58  
**Storage Conditions:** Store at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	35.0	79.7	
	EtOH	20.0	45.5	

**Remarks:**

**QC Date:** 16-01-2019

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**