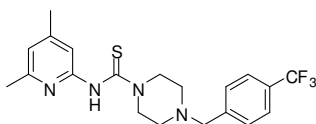




## Certificate of Analysis

**Axon Catalogue ID:** 2623 **Batch Number:** 1  
**Product Name:** NCT-503  
**Alternative Name(s):** N.A.  
**IUPAC Name:** N-(4,6-Dimethylpyridin-2-yl)-4-(4-(trifluoromethyl)benzyl)piperazine-1-carbothioamide

**Structure:**



**Amount:**

**CAS number(s):** 1916571-90-8  
**Molecular Formula:** C<sub>20</sub>H<sub>23</sub>F<sub>3</sub>N<sub>4</sub>S **Molecular Weight:** 408.48  
**Batch Molecular Formula:** C<sub>20</sub>H<sub>23</sub>F<sub>3</sub>N<sub>4</sub>S **Batch Molecular Weight:** 408.48  
**Appearance:** Light-yellow solid **Observed mp:** 134.3 °C  
**TLC (R<sub>f</sub>):** 0.1 DCM/MeOH (20:1)  
**Chemical Purity:** 98.2%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 58.81, H 5.68, N 13.72; Found: C 59.04, H 5.26, N 13.78  
**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)	13.0	31.8	
	DMSO	40.8	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 7-1-2022

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**