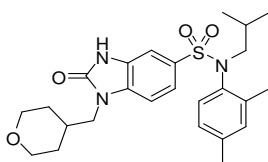




## Certificate of Analysis

**Axon Catalogue ID:** 2964 **Batch Number:** 1  
**Product Name:** CD12681  
**Alternative Name(s):** N.A.  
**IUPAC Name:** N-(2,4-Dimethylphenyl)-N-isobutyl-2-oxo-1-((tetrahydro-2H-pyran-4-yl)methyl)-2,3-dihydro-1H-benzo[d]imidazole-5-sulfonamide

**Structure:**



**Amount:**

**CAS number(s):** 1952239-59-6  
**Molecular Formula:** C<sub>25</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>S **Molecular Weight:** 471.61  
**Batch Molecular Formula:** C<sub>25</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>S.0.25H<sub>2</sub>O **Batch Molecular Weight:** 476.12  
**Appearance:** White solid **Observed mp:** 185.8 - 188 °C  
**TLC (R<sub>f</sub>):** 0.5 DCM/MeOH (9:1)  
**Chemical Purity:** 99.4%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 63.07, H 7.09, N 8.83; Found: C 63.12, H 7.07, N 8.79  
**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility		Remarks
		(mg/ml)	(mM)	
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	16.8	35.3	
	EtOH			Not Tested

**Remarks:**

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**