# Certificate of Analysis

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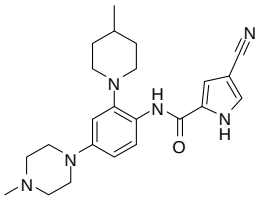
|---|---|---|---|
| **Axon Catalogue ID:** | 2061 | **Batch Number:** | 1 |
| **Product Name:** | CID 11654378 | | |
| **Alternative Name(s):** | FMS inhibitor compound 8 | | |
| **IUPAC Name:** | 4-cyano-N-(4-(4-methylpiperazin-1-yl)-2-(4-methylpiperidin-1-yl)phenyl)-1H-pyrrole-2-carboxamide | | |
| **Structure:** |  | **Amount:** | |
| **CAS number:** | 885704-21-2 | **MW:** | 406.52 |
| **Batch Molecular Formula:** | C23H30N6O.0.33H2O | **Batch MW:** | 412.46 |
| **Appearance:** | Off-white solid | **Observed mp:** | 245 - 246 °C (decomp.) |
| **TLC** ($R_f$)**:** | 0.5 DCM/MeOH (9:1) | | |
| **Chemical Purity:** | 99.5% | | |
| **Optical Purity (ee):** | | | |
| **1H-NMR (300 MHz):** | Analytical data confirm chemical structure | | |
| **Mass Spec:** | Analytical data confirm chemical structure | | |
| **Microanalysis:** | C, H, and N fit within 0,4% of theoretical calculation | | |
| **Storage Conditions:** | Store at +4°C | | |

**Solubility Data:**

| Solvent | Solubility (mg/ml) | Solubility (mM) | Remarks |
|---|---|---|---|
| Water | | | Not Tested |
| 0.1N NaOH (aq) | | | Not Tested |
| 0.1N HCl (aq) | 16.7 | 40.5 | |
| DMSO | 25.0 | 60.6 | |
| EtOH | | | Not Tested |

**Remarks:** The material shows certain electrostatic behavior.

Microanalysis: Calcd. C 66.96, H 7.49, N 20.37; Found: C 66.75, H 7.27, N 20.30.

**QC Date:** 4/9/2013

The purity of Axon products 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 indicating Axon Catalogue ID and Batch number.

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

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