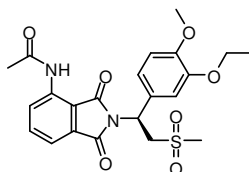




Certificate of Analysis

Axon Catalogue ID: 1957 **Batch Number:** 1
Product Name: Apremilast
Alternative Name(s): CC 10004
IUPAC Name: (S)-N-(2-(1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethyl)-1,3-dioxisoindolin-4-yl)acetamide

Structure:



Amount:

CAS number: 608141-41-9 **MW:** 460.50
Batch Molecular Formula: C₂₂H₂₄N₂O₇S **Batch MW:** 460.50
Appearance: Light-yellow solid **Observed mp:** 98 - 100 °C
TLC (R_f): 0.88 DCM/MeOH (9:1)
Chemical Purity: 99.4%
Optical Purity (ee): Optically pure
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) | | | Not Tested |
| | DMSO | 46.1 | >100 mM | Soluble |
| | EtOH | | | Not Tested |

Remarks:

QC Date: 12-12-2012

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