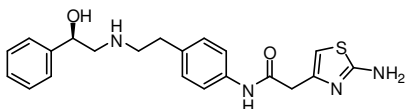




Certificate of Analysis

Axon Catalogue ID: 2414 **Batch Number:** 2
Product Name: Mirabegron
Alternative Name(s): YM 178; Betanis; Myrbetriq
IUPAC Name: (R)-2-(2-Aminothiazol-4-yl)-N-(4-(2-(2-hydroxy-2-phenylethylamino)ethyl)phenyl)acetamide

Structure:



Amount:

CAS number(s): 223673-61-8
Molecular Formula: C₂₁H₂₄N₄O₂S **Molecular Weight:** 396.51
Batch Molecular Formula: C₂₁H₂₄N₄O₂S **Batch Molecular Weight:** 396.51
Appearance: Off-white solid **Observed mp:** >138 °C (decomp)
TLC (R_f): 0.42 DCM/MeOH (4:1)
Chemical Purity: 99.8%
Optical Purity (ee): Optically pure
Optical Rotation (Det.): [α]_D = -21.5° with c = 0.5 in MeOH
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 63.61, H 6.10, N 14.13; Found: C 63.54, H 6.02, N 14.11
Storage Conditions: Store at +4 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	0.0	0.0	Insoluble
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)			Not Tested
DMSO	39.7	>100 mM	
EtOH	8.8	22.2	* Warming (40°C) and sonication

Remarks: * Warming (40°C) and sonication enhanced solubility.

QC Date: 9-9-2021

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 indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only