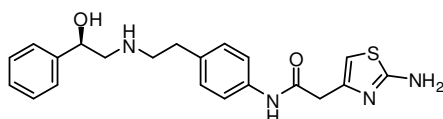




Certificate of Analysis

Axon Catalogue ID: 2414 **Batch Number:** 1
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:** 140.8 - 142.0 °C
TLC (R_f): 0.46 DCM/MeOH/NH₃ (9:1:0.01)
Chemical Purity: 99.6%
Optical Purity (ee): Optically pure
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 63.61, H 6.10, N 14.12; Found: C 63.52, H 5.77, N 14.13
Storage Conditions: Store at +4 °C

Solubility Data:	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			Not Tested

Remarks:

QC Date: 01-04-2020

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