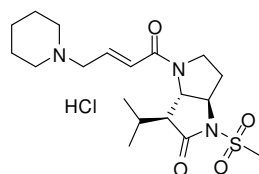




Certificate of Analysis

Axon Catalogue ID: 2364 **Batch Number:** 1
Product Name: GW 311616A
Alternative Name(s): GW 311616 hydrochloride
IUPAC Name: (3S,3aS,6aR)-3-Isopropyl-1-(methylsulfonyl)-4-((E)-4-(piperidin-1-yl)but-2-enyl)hexahydropyrrolo[3,2-b]pyrrol-2(1H)-one hydrochloride

Structure:



Amount:

CAS number(s): 198062-54-3 (parent), 197890-44-1 (HCl (1:1))
Molecular Formula: C₁₉H₃₁N₃O₄S.HCl **Molecular Weight:** 433.99
Batch Molecular Formula: C₁₉H₃₁N₃O₄S.HCl.0.25H₂O **Batch Molecular Weight:** 438.50
Appearance: Off-white solid **Observed mp:** 223 - 231 °C
TLC (R_f): 0.4 DCM/MeOH/NH₃ (9:1:0.01)
Chemical Purity: 99.8%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 52.04, H 7.47, N 9.58; Found: C 52.03, H 7.80, N 9.54
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water		38.0	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	43.8	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 07-04-2020

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