



## Certificate of Analysis

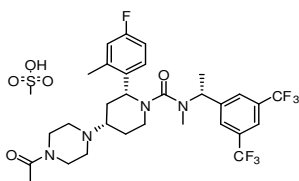
**Axon Catalogue ID:** 1901 **Batch Number:** 3

**Product Name:** Casopitant mesylate

**Alternative Name(s):** GW 679769B

**IUPAC Name:** (2R,4S)-4-(4-Acetylpiperazin-1-yl)-N-((R)-1-(3,5-bis(trifluoromethyl)phenyl)ethyl)-2-(4-fluoro-2-methylphenyl)-N-methylpiperidine-1-carboxamide methanesulfonate

**Structure:**



**Amount:**

**CAS number(s):** 414910-27-3 (parent), 414910-30-8 (mesylate (1:1))

**Molecular Formula:** C<sub>30</sub>H<sub>35</sub>F<sub>7</sub>N<sub>4</sub>O<sub>2</sub>.CH<sub>4</sub>O<sub>3</sub>S **Molecular Weight:** 712.72

**Batch Molecular Formula:** C<sub>30</sub>H<sub>35</sub>F<sub>7</sub>N<sub>4</sub>O<sub>2</sub>.CH<sub>4</sub>O<sub>3</sub>S.1H<sub>2</sub>O **Batch Molecular Weight:** 730.73

**Appearance:** White solid **Observed mp:** 241 °C

**TLC (R<sub>f</sub>):** 0.35 DCM/MeOH (9:1)

**Chemical Purity:** 99.2%

**Optical Purity (ee):** Optically pure

**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure

**Mass Spec:** Analytical data confirm chemical structure

**Microanalysis:** Calculated: C 50.95, H 5.66, N 7.67; Found: C 51.01, H 5.99, N 7.63

**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	60.0	82.1	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	60.0	82.1	
	EtOH			Not Tested

**Remarks:** The compound is hygroscopic. Keep dry and avoid light.

**QC Date:** 7-7-2021

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

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