



Certificate of Analysis

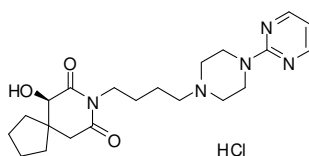
Axon Catalogue ID: 1997 **Batch Number:** 1

Product Name: (R)-6-Hydroxybuspirone hydrochloride

Alternative Name(s): BMS 442608 hydrochloride

IUPAC Name: (R)-6-Hydroxy-8-(4-(4-(pyrimidin-2-yl)piperazin-1-yl)butyl)-8-azaspiro[4.5]decane-7,9-dione hydrochloride

Structure:



Amount:

CAS number(s): 477930-30-6 (parent), 2108486-86-6 (HCl (1:1))

Molecular Formula: C₂₁H₃₁N₅O₃.HCl **Molecular Weight:** 437.96

Batch Molecular Formula: C₂₁H₃₁N₅O₃.HCl.2H₂O **Batch Molecular Weight:** 473.99

Appearance: White solid **Observed mp:** 204 - 206 °C

TLC (R_f): 0.51 DCM/MeOH (9:1)

Chemical Purity: 99.2%

Optical Purity (ee): 99.6%

¹H-NMR: Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 53.21, H 7.66, N 14.78; Found: C 53.51, H 7.39, N 14.91

Storage Conditions: Store at +4 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	47.4	>100 mM	
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)			Not Tested
DMSO	47.4	>100 mM	
EtOH			Not Tested

Remarks:

QC Date: 20-8-2021

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