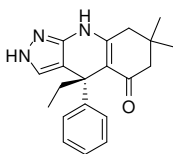




## Certificate of Analysis

**Axon Catalogue ID:** 3153 **Batch Number:** 1  
**Product Name:** BRD5648  
**Alternative Name(s):** N.A.  
**IUPAC Name:** (R)-4-Ethyl-7,7-dimethyl-4-phenyl-6,7,8,9-tetrahydro-2H-pyrazolo[3,4-b]quinolin-5(4H)-one

**Structure:**



**Amount:**

**CAS number(s):** 2056261-42-6  
**Molecular Formula:** C<sub>20</sub>H<sub>23</sub>N<sub>3</sub>O **Molecular Weight:** 321.42  
**Batch Molecular Formula:** C<sub>20</sub>H<sub>23</sub>N<sub>3</sub>O.0.5H<sub>2</sub>O **Batch Molecular Weight:** 330.42  
**Appearance:** White solid **Observed mp:** 178.8 °C (decomp)  
**TLC (R<sub>f</sub>):** 0.56 DCM/MeOH (9:1)  
**Chemical Purity:** 99.9%  
**Optical Purity (ee):** 100%  
**Optical Rotation (Det.):** [α]<sub>D</sub> = +43.3° with c = 0.5 in MeOH  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 72.70, H 7.32, N 12.72; Found: C 72.74, H 7.31, N 12.85  
**Storage Conditions:** Store at -20 °C

Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
Water	0.0	0.0	Insoluble
0.1N NaOH (aq)			Not Tested
0.1N HCl (aq)	0.0	0.0	Insoluble
DMSO	33.0	>100 mM	
EtOH			Not Tested

**Remarks:**

**QC Date:** 14-5-2020

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

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