



Certificate of Analysis

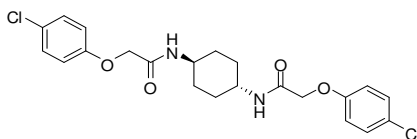
Axon Catalogue ID: 2278 **Batch Number:** 1

Product Name: ISRIB

Alternative Name(s): trans-ISRIB

IUPAC Name: N,N'-((1r,4r)-Cyclohexane-1,4-diyil)bis(2-(4-chlorophenoxy)acetamide)

Structure:



Amount:

CAS number(s): 1597403-47-8

Molecular Formula: C₂₂H₂₄Cl₂N₂O₄

Molecular Weight: 451.34

Batch Molecular Formula: C₂₂H₂₄Cl₂N₂O₄.0.5H₂O

Batch Molecular Weight: 460.35

Appearance: White solid

Observed mp: >270 °C (decomp.)

TLC (R_f): 0.8 DCM/MeOH (18:1)

Chemical Purity: 98.6%

¹H-NMR: Analytical data confirm chemical structure

Mass Spec: Analytical data confirm chemical structure

Microanalysis: Calculated: C 57.40, H 5.47, N 6.09; Found: C 57.30, H 5.06, N 6.09

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	1.5	3.2	Insoluble
	EtOH	0.0	0.0	Insoluble

Remarks: Readily soluble in solvent mixtures DCM/MeOH (9:1) or CHCl₃/MeOH (9:1). It is poorly soluble in DMSO without warming. Compound contains a trace of DCM (0.8 w.t.%) as determined by NMR.

QC Date: 28-10-2024

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