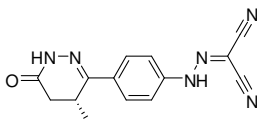




Certificate of Analysis

Axon Catalogue ID: 4046 **Batch Number:** 1
Product Name: Levosimendan
Alternative Name(s): OR1259
IUPAC Name: (R)-(4-(4-Methyl-6-oxo-1,4,5,6-tetrahydropyridazin-3-yl)phenyl)carbonohydrizonoyl dicyanide

Structure:



Amount:

CAS number(s): 141505-33-1
Molecular Formula: C₁₄H₁₂N₆O **Molecular Weight:** 280.28
Batch Molecular Formula: C₁₄H₁₂N₆O **Batch Molecular Weight:** 280.28
Appearance: Yellow solid **Observed mp:** >150 °C (decomp)
TLC (R_f): 0.46 DCM/MeOH (9:1)
Chemical Purity: 99.7%
Optical Purity (ee): Optically pure
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 59.99, H 4.32, N 29.98; Found: C 59.78, H 4.27, N 30.11
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 | 28.0 | >100 mM | |
| | EtOH | 0.0 | 0.0 | Insoluble |

Remarks:

QC Date: 5-10-2023

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