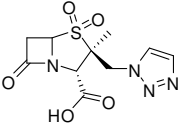




Certificate of Analysis

| | | | |
|---------------------------------|---|-------------------------------------|------------------------|
| Axon Catalogue ID: | 3820 | Batch Number: | 1 |
| Product Name: | Tazobactam acid | | |
| Alternative Name(s): | YTR830 | | |
| IUPAC Name: | (2S,3S,5R)-3-Methyl-4,4,7-trioxo-3-(triazol-1-ylmethyl)-4λ6-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid | | |
| Structure: |  | | Amount: |
| CAS number(s): | 89786-04-9 | | |
| Molecular Formula: | C ₁₀ H ₁₂ N ₄ O ₅ S | Molecular Weight: | 300.29 |
| Batch Molecular Formula: | C ₁₀ H ₁₂ N ₄ O ₅ S | Batch Molecular Weight: | 300.29 |
| Appearance: | White solid | Observed mp: | >183 °C (decomp) |
| TLC (R_f): | 0.2 | nBuOH/AcOH/H ₂ O (8:1:1) | |
| Chemical Purity: | >98% | | |
| Optical Purity (ee): | Optically pure | | |
| ¹H-NMR: | Analytical data confirm chemical structure | | |
| Mass Spec: | Analytical data confirm chemical structure | | |
| Microanalysis: | Calculated: C 40.00, H 4.03, N 18.65; Found: C 39.83, H 3.97, N 18.59 | | |
| Storage Conditions: | Store at +4 °C | | |
| Solubility Data: | Solvent | Solubility (mg/ml) | Solubility (mM) |
| | Water | 3.8 | 12.7 |
| | 0.1N NaOH (aq) | 19.0 | 63.4 |
| | 0.1N HCl (aq) | | Not Tested |
| | DMSO | 30.0 | >100 mM |
| | EtOH | 0.0 | 0.0 |
| Remarks: | Purity based on NMR. * Warming (40°C) and sonication enhanced solubility. | | |
| QC Date: | 31-3-2023 | | |

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