



CERTIFICATE OF ANALYSIS

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1. Identification

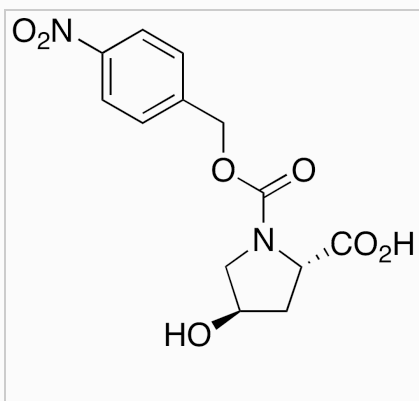
Catalogue Number: H953215

CAS Number: 96034-57-0

Product: (2S,4R)-4-Hydroxy-1,2-pyrrolidinedicarboxylic Acid 1-(4-Nitrobenzyl) Ester

Synonym: (2S-trans)-4-Hydroxy-1,2-pyrrolidinedicarboxylic Acid 1-[(4-Nitrophenyl)methyl] Ester; (2S,4R)-1-(p-Nitrobenzyloxycarbonyl)-4-hydroxyproline; trans-4-Hydroxy-1-(4-nitrobenzyloxycarbonyl)-L-proline;

Structure:



Molecular Formula:

C₁₃H₁₄N₂O₇

Molecular weight:

310.26

Source of Product:

N/A

Solubility:

Dichloromethane (Slightly),
DMSO (Slightly), Ethyl Acetate
(Slightly), Methanol

Lot Number: 2-HBN-35-1

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------|-------------------------------|
| Appearance | White to Off-White Solid | White to Off-White Solid |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 49.42, %H: 4.33, %N: 8.61 |
| MS | Conforms to Structure | Conforms |
| HPLC Purity | Report Result | 96.52% (275 nm) |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|----------------|---------------|--------------------|-----------|-------------|
| Sarbjeeet Kaur | Toni Rantanen | Chanell Chu | 9/6/2022 | 9/4/2029 |