1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{11}H_{18}N_{4}O_{3}
- **Batch Molecular Weight:** 254.29
- **Physical Appearance:** White solid
- **Solubility:**
  - Water to 100 mM
  - DMSO to 100 mM
- **Storage:** Store at -20°C
- **Batch Molecular Structure:**

![Molecular Structure Image]

2. ANALYTICAL DATA

- **TLC:** R_{f} = 0.16 (Dichloromethane: Methanol: Ammonia soln. [9:1:0.1])
- **HPLC:** Shows >99.9% purity
- **¹H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** [α]_{D} = +18.1 (Concentration = 1.02, Solvent = Methanol)
- **Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>51.96</td>
<td>7.13</td>
<td>22.03</td>
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<tr>
<td>Found</td>
<td>51.59</td>
<td>7.1</td>
<td>21.71</td>
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</table>
Product Name: PAOPA Catalo
Catalog No.: 5041
Batch No.: 1

CAS Number: 114200-31-6
IUPAC Name: (3R)-2-Oxo-3-[[2S]-2-Pyrrolidinylcarbonyl]amino]-1-pyrrolidineacetamide

Description:
Allosteric modulator of dopamine D₂ receptors. Prevents and reverses behavioral and biochemical abnormalities in an amphetamine-sensitized animal model of schizophrenia.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁H₁₉N₄O₃
Batch Molecular Weight: 254.29
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at -20°C

Solubility & Usage Info:
water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:
Dyck et al (2011) PAOPA, a potent analogue of Pro-Leu-glycinamide and allosteric modulator of the dopamine D2 receptor, prevents NMDA receptor antagonist (MK-801)-induced deficits in social interaction in the rat: implications for the treatment of negative symptoms in schizophrenia. Schizophr.Res. 125 89. PMID: 21036015.