1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( C_{20}H_{28}N_{4}O_{4} \cdot 0.5H_2O \)

**Batch Molecular Weight:** 397.47

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

2. ANALYTICAL DATA

**TLC:** \( R_f = 0.1 \) (Dichloromethane:Methanol [15:85])

**HPLC:** Shows >95.5% purity

**\(^1\)H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>60.44</td>
<td>60.73</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.35</td>
<td>7.52</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>14.1</td>
<td>14.38</td>
</tr>
</tbody>
</table>
Product Name: GM 6001

CAS Number: 142880-36-2
IUPAC Name: (2R)-N^4-Hydroxy-N^1-{(1S)-1-(1H-indol-3-ylmethyl)-2-(methylamino)-2-oxoethyl}-2-(2-methylpropyl)butanediamide

**Description:**
Broad spectrum MMP inhibitor. Reduces infarct volume following middle cerebral artery occlusion in an ischemic mouse model. Also inhibits human skin fibroblast collagenase (K_0 = 0.4 nM).

**Physical and Chemical Properties:**
- Batch Molecular Formula: C_{20}H_{38}N_{4}O_{6}·\frac{1}{2}H_{2}O
- Batch Molecular Weight: 397.47
- Physical Appearance: White solid
- Minimum Purity: >95%

**Batch Molecular Structure:**

![Molecular Structure Image]

**Storage:** Store at -20°C

**Solubility & Usage Info:**
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:**