Product Name: Ritonavir
Catalog No.: 5856
Batch No.: 1
CAS Number: 155213-67-5
IUPAC Name: 5-Thiazolylmethyl (3S,4S,6S,9S)-4-hydroxy-12-methyl-9-(1-methylethyl)-13-[2-(1-methylethyl)-4-thiazolyl]-8,11-dioxo-3,6-bis(phenylmethyl)-2,7,10,12-tetraazatridecanoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C\textsubscript{37}H\textsubscript{48}N\textsubscript{6}O\textsubscript{5}S\textsubscript{2}
Batch Molecular Weight: 720.94
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
\textsuperscript{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>61.64</td>
<td>6.71</td>
<td>11.66</td>
</tr>
<tr>
<td>Found</td>
<td>62</td>
<td>6.76</td>
<td>11.54</td>
</tr>
</tbody>
</table>
**Product Name:** Ritonavir
**Catalog No.:** 5856  **Batch No.:** 1

**CAS Number:** 155213-67-5  
**IUPAC Name:** 5-Thiazolylmethyl (3S,4S,6S,9S)-4-hydroxy-12-methyl-9-(1-methylethyl)-13-[2-(1-methylethyl)-4-thiazolyl]-8,11-dioxo-3,6-bis(phenylmethyl)-2,7,10,12-tetraazatridecanoate

**Description:**
HIV-1 and HIV-2 protease inhibitor (EC₅₀ values are 0.022-0.13 and 0.16 μM, respectively). Blocks the metabolism of protease inhibitors by liver enzyme cytochrome P450-3A4 (CYP3A4). Orally bioavailable.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₃₂H₄₈N₈O₅S₂
Batch Molecular Weight: 720.94
Physical Appearance: White solid
Minimum Purity: >98%

**Solubility & Usage Info:**
- DMSO to 20 mM with gentle warming
- Ethanol to 10 mM

**Storage:** Store at -20°C

**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:**

---

**Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use**

**Contact Information:**
- bio-techne.com
  - info@bio-techne.com
  - techsupport@bio-techne.com
- North America
  - Tel: (800) 343 7475
- China
  - Tel: +86 (21) 52380373
- Europe Middle East Africa
  - Tel: +44 (0)1235 529449
- Rest of World
  - Tel: +1 612 379 2956