Product Name: Rupintrivir
Catalog No.: 6414
Batch No.: 1

CAS Number: 223537-30-2
IUPAC Name: Ethyl (2E,4S)-4-[[(2R,5S)-2-[(4-fluorophenyl)methyl]-6-methyl-5-[[5-methyl-3-isoxazolyl]carbonyl]amino]-1,4-dioxoheptyl]amino]-5-[[3S]-2-oxo-3-pyrrolidinyl]-2-pentenoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{31}H_{39}FN_4O_7 \)
Batch Molecular Weight: 598.66
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +40.8 \) (Concentration = 0.5, Solvent = Chloroform)

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>62.19</td>
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<tr>
<td>Hydrogen</td>
<td>6.57</td>
<td>6.64</td>
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<tr>
<td>Nitrogen</td>
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<td>9.42</td>
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</table>

Certificate of Analysis

Print Date: Feb 14th 2022
www.tocris.com

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Rupintrivir  
Catalog No.: 6414  
Batch No.: 1  

**Description:**
Rupintrivir is a potent and selective irreversible human rhinovirus (HRV) 3C protease inhibitor (EC₅₀ = 5 nM). Exhibits no significant inhibition against a variety of serine and cysteine proteases. Inhibits replication of a panel of 48 different HRV serotypes in H1-HeLA and MRC-5 cell protection assays. Tocris products are for biomedical research use only. They are not intended for human or veterinary use.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₃₁H₃₉FN₂O₇  
Batch Molecular Weight: 598.66  
Physical Appearance: White solid  
Minimum Purity: ≥98%  

**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.

**Licensing Information:**
Sold for research purposes under agreement from Pfizer Inc.

**References:**