Product Name: J 2156  
Catalog No.: 6201  
Batch No.: 1

CAS Number:  2387505-73-7

IUPAC Name: (1'S,2S)-4-Amino-N-(1'-carbamoyl-2'-phenylethyl)-2-(4"-methyl-1"-naphthalenesulfonylamino)butanamide trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{24}H_{28}N_{4}O_{4}S.C_{2}H_{3}O_{2}.\frac{1}{2}H_{2}O
- **Batch Molecular Weight:** 591.61
- **Physical Appearance:** White solid
- **Solubility:** water to 100 mM  
  DMSO to 100 mM
- **Storage:** Store at -20°C
- **Batch Molecular Structure:**

2. ANALYTICAL DATA

- **TLC:** R\textsubscript{f} = 0.56 (Dichloromethane:Methanol:Ammonia soln. [2:20:30])
- **HPLC:** Shows 99.8% purity
- **\textsuperscript{1}H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>52.79</td>
<td>52.62</td>
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<tr>
<td>Hydrogen</td>
<td>5.11</td>
<td>5.09</td>
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<tr>
<td>Nitrogen</td>
<td>9.47</td>
<td>9.38</td>
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</tbody>
</table>
  
Caution - Not Fully Tested  •  Research Use Only  •  Not For Human or Veterinary Use

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Description:
High affinity human somatostatin receptor 4 (sst4) agonist (Ki = 1.2 nM). Displays >400-fold selectivity for human sst4 over other human sst receptor subtypes. Exhibits 2 to 3-fold more potent agonism in vitro than endogenous ligands somatostatin-14 (Cat. No. 1157) and somatostatin-28 (Cat. No. 1165). Reduces inflammatory airway hyperresponsiveness in acute and chronic airway inflammation models in mice. Exhibits anxiolytic effects in elevated plus maze test in mice.

Physical and Chemical Properties:
Batch Molecular Formula: C24H28N4O5S.C2HF3O2.½H2O
Batch Molecular Weight: 591.61
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: