

# Certificate of Analysis

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**Product Name:** J 2156

**Catalog No.:** 6201

**Batch No.:** 2

**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<sub>24</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub>S.C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>.¾H<sub>2</sub>O

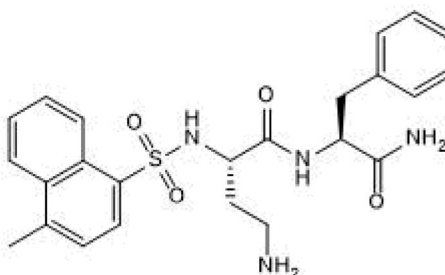
**Batch Molecular Weight:** 596.11

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



CF<sub>3</sub>COOH

## 2. ANALYTICAL DATA

**HPLC:** Shows 97.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical	52.39	5.16	9.4
Found	51.64	4.98	9.06

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

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**Description:**

J 2156 is a high affinity human somatostatin receptor 4 (sst<sub>4</sub>) agonist (K<sub>i</sub> = 1.2 nM). Displays >400-fold selectivity for human sst<sub>4</sub> 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:**

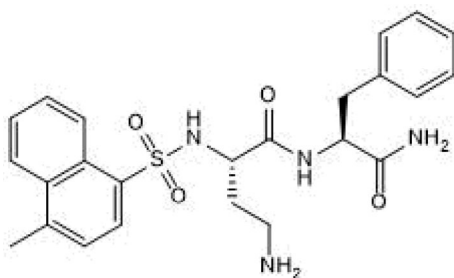
Batch Molecular Formula: C<sub>24</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub>S.C<sub>2</sub>H<sub>3</sub>F<sub>3</sub>O<sub>2</sub>.¾H<sub>2</sub>O

Batch Molecular Weight: 596.11

Physical Appearance: White solid

**Minimum Purity:** ≥97%

**Batch Molecular Structure:**



CF<sub>3</sub>COOH

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Scheich *et al*** (2016) Somatostatin receptor subtype 4 activation is involved in anxiety and depression-like behavior in mouse models. *Neuropharmacology*. **101** 204. PMID: 26387439.

**Elekes *et al*** (2008) Inhibitory effects of synthetic somatostatin receptor subtype 4 agonists on acute and chronic airway inflammation and hyperreactivity in the mouse. *Eur.J.Pharmacol.* **578** 313. PMID: 17961545.

**Engström *et al*** (2005) Superagonism at the human somatostatin receptor subtype 4. *J.Pharmacol.Exp.Ther.* **312** 332. PMID: 15333679.

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