

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: C₂₄H₂₈N₄O₄S.C₂HF₃O₂.½H₂O

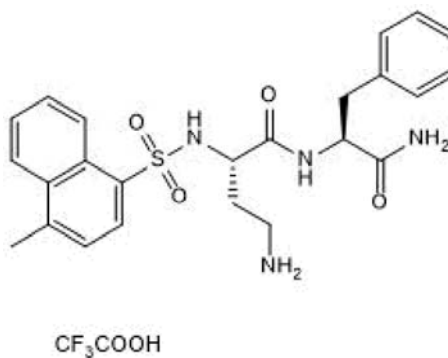
Batch Molecular Weight: 591.61

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_f = 0.56 (Dichloromethane:Methanol:Ammonia soln. [2:20:30])

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.79	5.11	9.47
Found	52.62	5.09	9.38

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Description:

High affinity human somatostatin receptor 4 (sst₄) agonist (K_i = 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:

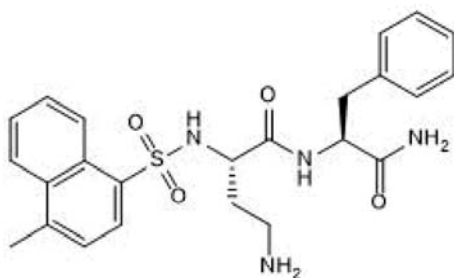
Batch Molecular Formula: C₂₄H₂₈N₄O₄S.C₂HF₃O₂.½H₂O

Batch Molecular Weight: 591.61

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



CF₃COOH

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:

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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