

**Product Name:** SB 290157 trifluoroacetate

**Catalog No.:** 6860

**Batch No.:** 3

CAS Number: 1140525-25-2

IUPAC Name: *N*<sup>2</sup>-[2-(2,2-Diphenylethoxy)acetyl]-L-arginine trifluoroacetate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub>.CF<sub>3</sub>CO<sub>2</sub>H.

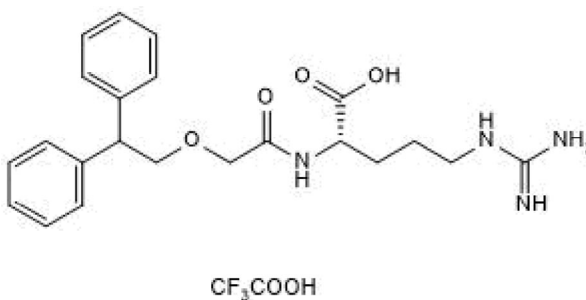
**Batch Molecular Weight:** 526.51

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity

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

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +2.4 (Concentration = 1, Solvent = DMSO)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.75	5.55	10.64
Found	54.81	5.49	10.56

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

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**Description:**

SB 290157 trifluoroacetate is a potent C3a receptor antagonist (IC<sub>50</sub> values are 27 - 30 nM for C3a-induced Ca<sup>2+</sup> mobilization in vitro and ex vivo). Inhibits C3a-induced chemotaxis in human mast cell line. Also inhibits tau hyperphosphorylation in vitro. Displays anti-inflammatory effects in animal models of airway inflammation and arthritis. Also inhibits glucose-induced insulin secretion and ATP production from ex vivo human and mouse pancreatic islets. Also exhibits C3a receptor agonist activity.

**Physical and Chemical Properties:**

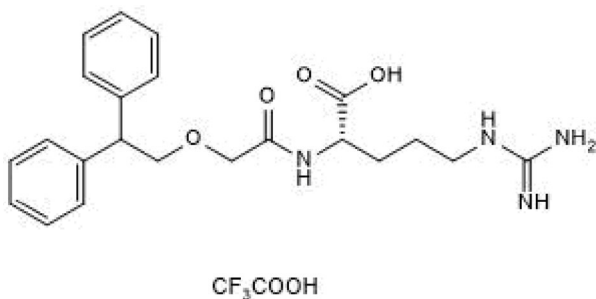
Batch Molecular Formula: C<sub>22</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub>.CF<sub>3</sub>CO<sub>2</sub>H.

Batch Molecular Weight: 526.51

Physical Appearance: Off White solid

**Minimum Purity:** ≥97%

**Batch Molecular Structure:**



**References:**

**Hu et al** (2019) Complement C3a receptor antagonist attenuates tau hyperphosphorylation via glycogen synthase kinase 3β signaling pathways. *Eur.J.Pharmacol.* **850** 135. PMID: 30771350.

**Atanes et al** (2018) C3aR and C5aR1 act as key regulators of human and mouse β-cell function. *Cell Mol.Life Sci.* **75** 715. PMID: 28921001.

**Mathieu et al** (2005) The C3a receptor antagonist SB 290157 has agonist activity. *Immunol.Lett.* **100** 139. PMID: 16154494.

**Storage:** Desiccate at RT. This product is packaged under an inert atmosphere.

**Solubility & Usage Info:**

DMSO to 100 mM

**CAUTION** - This product is hygroscopic and we recommend that it is desiccated upon arrival. The product has been packed under inert atmosphere.

**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.

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