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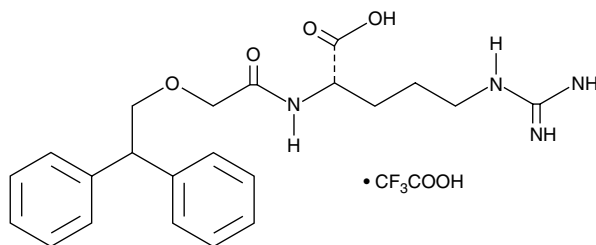
# Product Information



## SB 290157 (trifluoroacetate salt)

Item No. 15783

**CAS Registry No.:** 1140525-25-2  
**Formal Name:** N<sup>2</sup>-[2-(2,2-diphenylethoxy)acetyl]-L-arginine, 2,2,2-trifluoroacetate  
**MF:** C<sub>22</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub> • CF<sub>3</sub>COOH  
**FW:** 526.5  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 259 nm



### Laboratory Procedures

For long term storage, we suggest that SB 290157 (trifluoroacetate salt) be stored as supplied at -20°C. It should be stable for at least two years.

SB 290157 (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the SB 290157 (trifluoroacetate salt) in the solvent of choice. SB 290157 (trifluoroacetate salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of SB 290157 (trifluoroacetate salt) in these solvents is approximately 30, 20, and 25 mg/ml, respectively.

SB 290157 (trifluoroacetate salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SB 290157 (trifluoroacetate salt) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SB 290157 (trifluoroacetate salt) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The anaphylatoxin C3a induces a range of responses by activating its G protein-coupled receptor, C3aR, resulting in calcium mobilization.<sup>1</sup> SB 290157 is a non-peptide antagonist of C3aR, competitively blocking C3a binding with an IC<sub>50</sub> value of 200 nM.<sup>2</sup> It potently inhibits a wide variety of C3a-induced responses in cells, including calcium increase in human neutrophils (IC<sub>50</sub> = 28 nM) and ATP release from guinea pig platelets (IC<sub>50</sub> = 30 nM).<sup>2</sup> SB 290157 is also effective *in vivo*, reducing inflammation in a variety of animal models.<sup>2-4</sup> It also significantly reduces or reverses diet-induced obesity in rats and accelerates the mobilization of hematopoietic progenitor cells to the peripheral blood in mice.<sup>5-6</sup> Notably, SB 290157 has C3aR agonist activity in some cell systems.<sup>7-8</sup>

### References

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6. Ratajczak, J., Reca, R., Kucia, M., *et al. Blood* **103**(6), 2071-2078 (2004).
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8. Therien, A.G. *J. Immunol.* **174**(12), 7479-7490 (2005).

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