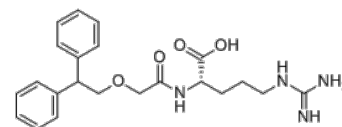


Product Name : SB290157
Cat. No. : PC-60789
CAS No. : 259218-28-5
Molecular Formula : C₂₂H₂₈N₄O₄
Molecular Weight : 412.49
Target : Complement System
Solubility : 10 mM in DMSO



Biological Activity

SB290157 (SB 290157) is a potent, selective nonpeptide antagonist of anaphylatoxin **C3a receptor (C3aR)** with IC₅₀ of 200 nM.

SB290157 does not antagonize the C5aR or 5 other chemotactic GPCRs on human neutrophils.

SB290157 blocks C3a-induced C3aR internalization and C3a-induced Ca²⁺ mobilization in RBL-C3aR cells and human neutrophils with IC₅₀ of 27.7 and 28 nM, respectively.

SB290157 also inhibits C3a-induced Ca²⁺ mobilization of mouse and guinea pig C3aRS with IC₅₀ of 7 and 12.5 nM, respectively.

SB290157 potently inhibits C3a-mediated ATP release from guinea pig platelets and inhibits C3a-induced potentiation of the contractile response to field stimulation of perfused rat caudal artery, demonstrates antiinflammatory activity in animal models.

References

Ames RS, et al. *J Immunol.* 2001 May 15;166(10):6341-8.

Therien AG. *J Immunol.* 2005 Jun 15;174(12):7479; author reply 7479-80.

Ratajczak J, et al. *Blood.* 2004 Mar 15;103(6):2071-8.

Proctor LM, et al. *Br J Pharmacol.* 2004 Jun;142(4):756-64.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com