

Recombinant Human SR-PSOX (CXCL16)

Synonyms: Chemokine (C-X-C Motif) Ligand 16, Scavenger Receptor For Phosphatidylserine And Oxidized Low Density Lipoprotein, Small-Inducible Cytokine B16, CXC Chemokine Ligand 16, C-X-C Motif Chemokine 16, CXCLG16, SCYB16,

Introduction: CXC chemokine ligand 16 (CXCL16) is a type I membrane protein, which contains a non-ELR motif-containing CXC chemokine domain in its extracellular region. Human and Mouse CXCL16 share a 70% a.a. sequence similarity within their chemokine domains and 49% overall a.a. sequence identity. Functional CXCL16 can be dropped from the cell surface as an approximately 35kDa soluble protein. CXCR6 is the functional receptor for CXCL16. It functions as a scavenger receptor on macrophages, which specifically binds to OxLDL (oxidized low density lipoprotein), proposing that it may be involved in pathophysiology such as atherogenesis. In addition, CXCL16 induces a strong chemotactic response and calcium mobilization. It binds to CXCR6/Bonzo.

Description: SR-PSOX Human Recombinant (30-118 a.a.) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 89 amino acids and having a molecular mass of 10kDa. It is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder..

Formulation: Lyophilized from a 0.2µm filtered solution in PBS.

Solubility: It is recommended to reconstitute the lyophilized SR-PSOX in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized SR-PSOX although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SR-PSOX should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 97.0% as determined by SDS-PAGE.

Amino Acid Sequence: NEGSVTGSCY CGKRISSDSP PSVQFMNRLR KHLRAYHRCL YYTRFQLLSW SVCGGNKDPW VQELMSCLDL KECGHAYSGI VAHQKLLP.

Biological Activity: The ED₅₀, as measured by its ability to chemoattract mouse CXCR6-transfected mouse BaF3 cells, is less than 12 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	11345280
<i>medium</i>	25 µg	Cat.N°	11345284

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