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32-6602: CXCL16 Human

Application :	Functional Assay
Alternative Name :	Chemokine (C-X-C Motif) Ligand 16, Scavenger Receptor For Phosphatidylserine And Oxidized Low Density Lipoprotein, Transmembrane Chemokine CXCL16, Small-Inducible Cytokine B16, CXC Chemokine Ligand 16, SR-PSOX, SRPSOX, C-X-C Motif Chemokine 16, CXCLG16, SCYB16, CXCL16.

Description

Source: Escherichia Coli.
Sterile Filtered White lyophilized (freeze-dried) powder.
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. CXCL16 functions as a scavenger receptor on macrophages, which specifically binds to OxLDL (oxidized low density lipoprotein), proposing that CXCL16 may be involved in pathophysiology such as atherogenesis. In addition, CXCL16 induces a strong chemotactic response and calcium mobilization. CXCL16 binds to CXCR6/Bonzo.
CXCL16 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.The CXCL16 is purified by proprietary chromatographic techniques.

Product Info

Amount :	5 µg / 25 µg
Purification :	Greater than 97.0% as determined by SDS-PAGE.
Content :	CXCL16 protein was lyophilized from a 0.2µm filtered solution in PBS. It is recommended to reconstitute the lyophilized CXCL16 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Storage condition :	Lyophilized CXCL16 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL16 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.
Amino Acid :	NEGSVTGSCY CGKRISSDSP PSVQFMNRLR KHLRAYHRCL YYTRFQLLSW SVCGGNKDPW VQELMSCLDL KECGHAYSGI VAHQKHLLP.

Application Note

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

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