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CXCL16 Human

CXCL16 Human Recombinant
CHK0020

Product Overview

Name	CXCL16 Human
Description	
CXCL16 Human Recombinant	
Accession (Primary)	Q9H2A7
Synonyms	
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.	
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. 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
CXCL16 protein was lyophilized from a 0.2 μm filtered solution in PBS.	
Stability	
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.	
Purity	
Greater than 97.0% as determined by SDS-PAGE.	

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Amino acid sequence

NEGSVTGSCY CGKRISSDSP PSVQFMNRLR KHLRAYHRCL YYTRFQLLSW SVCGGNKDPW VQELMSCLDL KECGHAYSGI VAHQKHLLP.

Biological Activity

The ED 50 , as measured by its ability to chemoattract mouse CXCR6-transfected mouse BaF3 cells, is less than 12ng/ml.

Solubility

It is recommended to reconstitute the lyophilized CXCL16 in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

CXCL16 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9H2A7)