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Datasheet for ABIN6253399  
**CXCL12 Protein (AA 22-89) (Fc Tag)**

Overview

Quantity:	50 µg
Target:	CXCL12
Protein Characteristics:	AA 22-89
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CXCL12 protein is labelled with Fc Tag.

Product Details

Purpose:	SDF-1alpha [CXCL12] (human):Fc (human) (rec.)
Specificity:	The extracellular domain of human SDF-1alpha (aa 22-89) is fused to the N-terminus of the Fc region of human IgG1.
Characteristics:	Protein. The extracellular domain of human SDF-1alpha (aa 22-89) is fused to the N-terminus of the Fc region of human IgG1. Source: HEK 293 cells. Endotoxin content: <5EU/mg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: >95 % (SDS-PAGE). The human stromal cell-derived factor-1 (SDF1), also known as CXCL12, is a small (8 kDa) cytokine that belongs to the CXC chemokine subfamily. SDF1 is widely expressed in various organs including heart, liver, brain, kidney, skeletal muscle, and lymphoid organs, and is highly conserved between species. SDF1 is expressed in two isoforms from a single gene that encodes two splice variants, SDF1alpha and SDF1beta, which are identical except for the four residues present in the C-terminus of SDF1beta but absent from SDF1alpha. As a highly efficacious lymphocyte chemoattractant, SDF1 activates and directs the migration of

## Product Details

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leukocytes in response to proinflammatory stimuli such as LPS, TNF, or interleukins. It has been demonstrated that SDF1 promotes tumor growth and malignancy, enhances tumor angiogenesis, participates in tumor metastasis, and thus plays an important role in carcinoma pathogenesis. In addition, SDF1 is identified as the biological ligand for CXC-chemokine receptor 4 (CXCR4), which is widely expressed in leukocytes and acts as the cofactor for HIV-1 entry, and inhibits the HIV-1 infection. Furthermore, SDF1 is rapidly inactivated via N-terminal processing by cathepsin G associated with the membrane of B-cells, NK cells and to a lesser extent, T-cells.

Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<5EU/mg protein (LAL test, Lonza).

## Target Details

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Target:	CXCL12
Alternative Name:	SDF-1alpha [CXCL12] ( <a href="#">CXCL12 Products</a> )
Background:	<p>Alternate Names/Synonyms: CXCL12, C-X-C Motif Chemokine 12, PBSF, SCYB12, TLSF, TPAR1</p> <p>Product Description: The human stromal cell-derived factor-1 (SDF1), also known as CXCL12, is a small (8 kDa) cytokine that belongs to the CXC chemokine subfamily. SDF1 is widely expressed in various organs including heart, liver, brain, kidney, skeletal muscle, and lymphoid organs, and is highly conserved between species. SDF1 is expressed in two isoforms from a single gene that encodes two splice variants, SDF1alpha and SDF1beta, which are identical except for the four residues present in the C-terminus of SDF1beta but absent from SDF1alpha. As a highly efficacious lymphocyte chemoattractant, SDF1 activates and directs the migration of leukocytes in response to proinflammatory stimuli such as LPS, TNF, or interleukins. It has been demonstrated that SDF1 promotes tumor growth and malignancy, enhances tumor angiogenesis, participates in tumor metastasis, and thus plays an important role in carcinoma pathogenesis. In addition, SDF1 is identified as the biological ligand for CXC-chemokine receptor 4 (CXCR4), which is widely expressed in leukocytes and acts as the cofactor for HIV-1 entry, and inhibits the HIV-1 infection. Furthermore, SDF1 is rapidly inactivated via N-terminal processing by cathepsin G associated with the membrane of B-cells, NK cells and to a lesser extent, T-cells.</p>
Molecular Weight:	~35kDa (SDS-PAGE)
NCBI Accession:	<a href="#">NP_954637</a>
Pathways:	<a href="#">Regulation of Cell Size</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Negative Regulation of intrinsic</a>

## Target Details

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apoptotic Signaling

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Concentration: Lot specific

Buffer: Lyophilized from 0.2µm-filtered solution in PBS.

Handling Advice: Avoid freeze/thaw cycles.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.