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Datasheet for ABIN6699684 **CXCL12 Protein**

2 Images



Overview

Quantity:	100 µg
Target:	CXCL12
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Stromal Cell-Derived Factor-1 alpha (CXCL12) Recombinant Protein
Purification:	Stromal Cell-Derived Factor-1 alpha (CXCL12) purity was determined to be greater than 98% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically \leq 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to chemoattract human peripheral T cells at 10 - 75 ng/mL.

Target Details

Target:	CXCL12
Alternative Name:	CXCL12 (CXCL12 Products)
Background:	Synonyms: C-X-C motif chemokine 12, Intercrine reduced in hepatomas (IRH, hIRH), Pre-B cell

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6699684 | 02/14/2025 | Copyright antibodies-online. All rights reserved.

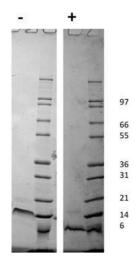
splice variants made by a wide variety of cells when stimulated by inflammatory cytokines as, TNF, IL-1 or LPS. SDF-1a signals through the G protein-couple receptor, CXCR4, to recr activated leukocytes. Human and mouse SDF-1a share 99 % sequence identity. Recombin human SDF-1a is a non-glycosylated protein, containing 68 amino acids, with a molecular weight of 8 kDa. UniProt: P48061 Pathways: Regulation of Cell Size, CXCR4-mediated Signaling Events, Negative Regulation of Intrinsic apoptotic Signaling Application Details Application_Notes: Other: User Optimized Application_Note: Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal Stromal Cell-Derived Factor-1 alpha Recombinant Protein has been test SDS-PAGE and biological activity and is suitable as a control		growth-stimulating factor (PBSF)
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Buffer: Buffer: 0.1 % Trifluoroacetic acid	Buffer:	Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None		Stabilizer: None
Preservative: Without preservative	reservative:	Without preservative
Storage: 4 °C,-20 °C	torage:	4 °C,-20 °C
Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility.		Store vial at 4° C prior to restarction. Dilute only prior to immediate upo Maintain starility. This
product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carr	torage Comment:	Store vial at 4 °C prior to restoration. Dilute only prior to infinediate use. Maintain Sternity. This

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN6699684 | 02/14/2025 | Copyright antibodies-online. All rights reserved. protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

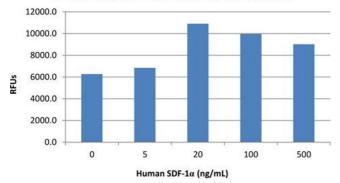
Expiry Date:

6 months

Images



Human SDF-1a Induced Chemotaxis of Primary Human T cells



SDS-PAGE

Image 1. SDS-PAGE of Human Stromal Cell-Derived Factor-1 alpha (CXCL12) Recombinant Protein. Lane 1: 1 μg Human SDF-1 alpha in non-reducing conditions. Lane 2: Molecular weight marker. Lane 3: 1 μg Human SDF-1 alpha in reducing conditions (+). Lane 4: Molecular weight marker. Human SDF-1 alpha has a predicted MW of 8 kDa.

SDS-PAGE

Image 2. SDS-PAGE of Human Stromal Cell-Derived Factor-1 alpha (CXCL12) Recombinant Protein Bioactivity of Human Stromal Cell-Derived Factor-1 alpha (CXCL12). Human T cells were allowed to migrate to Human SDF-1 α at (0, 5, 20, 100, 500 ng/mL). After 4 hours, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Human SDF-1 α detectable starting at between 5-20 ng/mL.