

Datasheet for ABIN6700580

CXCL12 Protein**2** Images[Go to Product page](#)

Overview

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

Product Details

Purpose:	Mouse Stromal Cell-Derived Factor-1 beta (CXCL12) Recombinant Protein
Purification:	Stromal Cell-Derived Factor-1 beta (CXCL12) purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to chemoattract human T cells at 10-75 ng/mL.

Target Details

Target:	CXCL12
Alternative Name:	Cxcl12 (CXCL12 Products)
Background:	Synonyms: 12-O-tetradecanoylphorbol 13-acetate repressed protein 1 (TPAR1), C-X-C motif chemokine 12, Pre-B cell growth-stimulating factor (PBSF), Thymic lymphoma cell-stimulating

Target Details

factor (TLSF)

Background: Stromal Derived Growth Factor-1 β (SDF-1 β), also called CXCL12, is one of two splice variants made by a wide variety of cells when stimulated by inflammatory cytokines such as, TNF, IL-1 or LPS. SDF-1 β signals through the G protein-couple receptor, CXCR4, to recruit activated leukocytes. Human SDF-1 β shares 100 % identity to feline SDF-1 β . Recombinant mouse SDF-1 β is a non-glycosylated protein, containing 72 amino acids, with a molecular weight of 8.5 kDa.

UniProt: [Q4FJL5](#)

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 beta Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Stromal Cell-Derived Factor-1 beta in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 100 μ L

Concentration: 0.1 mg/mL

Buffer: Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None

Preservative: Without preservative

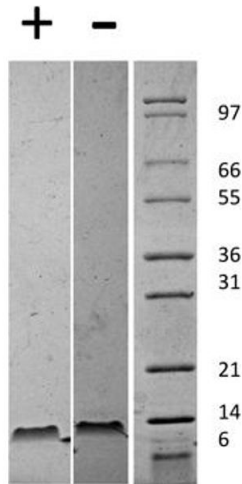
Storage: 4 $^{\circ}$ C, -20 $^{\circ}$ C

Storage Comment: Store vial at 4 $^{\circ}$ C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier

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.

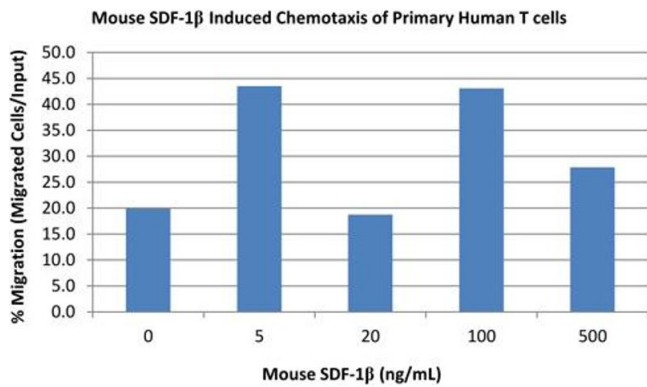
Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Mouse Stromal Cell-Derived Factor-1 beta (CXCL12) Recombinant Protein SDS-PAGE of Mouse Stromal Cell-Derived Factor-1 beta (CXCL12) Recombinant Protein. Lane 1: 1 µg Mouse SDF-1 beta in reducing conditions (+). Lane 2: 1 µg Mouse SDF-1 beta in non-reducing conditions . Lane 3: Molecular weight marker. Mouse SDF-1 beta is predicted to be a 8.5 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Stromal Cell-Derived Factor-1 beta (CXCL12) Recombinant Protein Bioactivity of Mouse Stromal Cell-Derived Factor-1 beta (CXCL12) Recombinant Protein. Human T cells were allowed to migrate to Mouse SDF-1β 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 Mouse SDF-1β detectable starting at between 5-100 ng/mL.