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Datasheet for ABIN1097490
CXCL12 Protein (AA 22-89)

Overview

Quantity:	50 µg
Target:	CXCL12
Protein Characteristics:	AA 22-89
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human C-X-C Motif Chemokine 12/CXCL12/SDF-1 (22-89)
Sequence:	KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK
Characteristics:	Recombinant Human C-X-C Motif Chemokine 12/CXCL12 (22-89) is produced with our E. coli expression system. The target protein is expressed with sequence (Lys22-Lys89) of Human CXCL12.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CXCL12
Alternative Name:	sdf-1-alpha (CXCL12 Products)

Target Details

Background: Stromal Cell-Derived Factor-1 (SDF-1) is a chemokine member of the intercrine family. SDF1 is expressed as five isoforms that differ only in the C terminal tail. SDF1alpha and SDF1beta are identical except for the four residues present in the C-terminus of SDF1beta but absent from SDF1alpha. SDF1 isoforms interact with CXCR4 and CXCR7 receptors on the cell surface, and can also bind syndecan4. SDF1 is known to influence lymphopoiesis, regulate patterning and cell number of neural progenitors, and promote angiogenesis. It also enhances the survival of myeloid progenitor cells.

Alternative Names: Stromal Cell-Derived Factor 1, SDF-1, hSDF-1, C-X-C Motif Chemokine 12, Intercrine Reduced in Hepatomas, IRH, hIRH, Pre-B Cell Growth-Stimulating Factor, PBSF, CXCL12, SDF1, SDF1A, SDF1B

Molecular Weight: 8.12 kDa

UniProt: [P48061](#)

Pathways: [Regulation of Cell Size](#), [CXCR4-mediated Signaling Events](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months