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Datasheet for ABIN7318350
CXCL12 Protein

Overview

Quantity:	50 µg
Target:	CXCL12
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human CXCL12/SDF-1 Protein (aa19-93)
Sequence:	Ser19-Met93
Characteristics:	Recombinant Human C-X-C Motif Chemokine 12 is produced by our E.coli expression system and the target gene encoding Ser19-Met93 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CXCL12
Alternative Name:	CXCL12/SDF-1 (CXCL12 Products)
Background:	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. SDF1α and SDF1β are identical except for the four residues present in the C-terminus of SDF1β but absent from SDF1α. SDF1 isoforms interact with CXCR4 and CXCR7 receptors on the cell surface, and

Target Details

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.

Synonym: 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: 8.8 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: Please refer to the printed manual for detailed information.

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

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.