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## Datasheet for ABIN1097484 SDF1 beta Protein (AA 22-93)

### Overview

Quantity:	50 µg
Target:	SDF1 beta (SDF1b)
Protein Characteristics:	AA 22-93
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human C-X-C Motif Chemokine 12/CXCL12/SDF-1 (22-93)
Sequence:	KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNKRF KM
Characteristics:	Recombinant Human C-X-C Motif Chemokine 12/CXCL12 (22-93) is produced with our E. coli expression system. The target protein is expressed with sequence (Lys22-Met93) 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:	SDF1 beta (SDF1b)
Alternative Name:	sdf-1-beta ( <a href="#">SDF1b Products</a> )

## Target Details

Background:	<p>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.</p> <p>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</p>
Molecular Weight:	8.53 kDa
UniProt:	<a href="#">P48061</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
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:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>
Expiry Date:	3 months