

[Go to Product page](#)

## Datasheet for ABIN988232 SDF1 beta Protein

### Overview

Quantity:	1 mg
Target:	SDF1 beta (SDF1b)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

### Product Details

Sequence:	KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNKRL K
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by a chemotaxis bioassay using human peripheral blood monocytes is less than 200 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^3$ IU/mg.
Purity:	$> 97$ % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/ $\mu$ g of rRtSDF-1beta/CXCL12 as determined by LAL method

### Target Details

Target:	SDF1 beta (SDF1b)
Alternative Name:	SDF-1 beta/cxcl12 ( <a href="#">SDF1b Products</a> )
Background:	SDF-1 <sup>a</sup> and beta are stromal derived CXC chemokines, and signal through the CXCR4 receptor. SDF-1 <sup>a</sup> and beta chemoattract B and T cells, and have been shown to induce migration of CD34 <sup>+</sup> stem cells. Additionally, the SDF-1 proteins exert HIV suppressive activity in cells

## Target Details

expressing the CXCR4 receptor. Synonym: SDF-1beta/CXCL12, Rat. Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl.

Molecular Weight: 7.9 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids.

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Storage: 4 °C