

SDF-1β

Catalog # PVGS1480

Specification

SDF-1 β - Product Information

Sequence Lys²²-Met⁹³ (accession #: P40224)

Purity > 95% as analyzed by SDS-PAGE.

Endotoxin Level < 0.2 EU/ μg, determined by LAL method.

Formulation

Lyophilized after extensive dialysis against PBS.

Reconstituted in ddH₂0 or PBS at 100 µg/ml.

SDF-1 β - Additional Information

Target Background

SDF-1 α and SDF-1 β , members of the chemokine α subfamily that lack the ELR domain, were initially identified using the signal sequence trap cloning strategy from a mouse bone-marrow stromal cell line. SDF-1 α and SDF-1 β cDNAs encode precursor proteins of 89 and 93 amino acid residues, respectively. Both SDF-1 α and SDF-1 β are encoded by a single gene and arise by alternative splicing. The two proteins are identical except for the four amino acid residues that are present in the carboxy-terminus of SDF-1 β and absent from SDF-1 α . SDF-1/PBSF is highly conserved between species, with only one amino acid substitution between the mature human and mouse proteins. SDF-1/PBSF acts via the chemokine receptor CXCR4 and has been shown to be a chemoattractant for T-lymphocytes, monocytes, pro- and pre-B cells, but not neutrophils. Mice lacking SDF-1 or CXCR4 have been found to have impaired B-lymphopoiesis, myelopoiesis, vascular development, cardiogenesis and abnormal neuronal cell migration and patterning in the central nervous system.
br>Recombinant
br>Nouse SDF-1 β /CXCL12</br/>broduced in <i>PCHO</i> cells is a polypeptide chain containing 78 amino acids. A fully biologically active molecule, rm SDF-1 β /CXCL12 has a molecular mass of 8.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at .

SDF-1 β - Protein Information

SDF-1 β - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Western Blot</u>



- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- SDF-1 β Images