PrimeGene a biotechne brand

Recombinant Human Stromal-Cell Derived Factor-1 beta/CXCL12β (rHuSDF-1β/CXCL12β)

PrimeGene Technical Data Sheet

Source:Escherichia coli.Molecular Weight:Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing 72 amino acid residues.Quantity:2µg/10µg/1000µg
Quantity: $2\mu g/10\mu g/1000\mu g$
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AA Sequence: KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE
YLEKALNKRF KM
Purity: > 97 % by SDS-PAGE and HPLC analyses.
Biological Activity: Fully biologically active when compared to standard. The biological activity determined by a
chemotaxis bioassay using PHA and rHuIL-2 activated human peripheral blood T-lymphocytes is in a
concentration range of 20-80 ng/ml.
Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin: Less than 1 EU/ μ g of rHuSDF-1 β /CXCL12 β as determined by LAL method.
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 \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature
recommended below.
Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
• 12 months from date of receipt, -20 to -70 °C as supplied.
• 1 month, 2 to 8 °C under sterile conditions after reconstitution.
• 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further
evaluation purposes. NOT FOR HUMAN USE.

Human Stromal-Cell Derived Factor-1 beta/CXCL12β

CXCL12 also known as SDF-1 is belonging to the CXC chemokine family. It is encoded by the CXCL12 gene. In recently study, Human CXCL12 is expressed as six isoforms that differ only in the C-terminal tail. And all SDF-1 isoforms undergo proteolytic processing of the first two N-terminal amino acids. In all SDF-1 isoforms, SDF-1 β is the canonical sequence. It has the complete amino acids in the C-terminal tail. On the cell surface, the receptor for this chemokine is CXCR4 and syndecan4. CXCL12 is strongly chemotactic for T-lymphocytes, monocytes, but not neutrophils. CXCL12 is a very important factor in carcinogenesis and the neovascularisation linked to tumor progression.

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