

Recombinant Murine Stromal-Cell Derived Factor-1 beta/CXCL12β (rMuSDF-1β/CXCL12β)

PrimeGene Technical Data Sheet

Catalog Number:

221-12B

Source:

Escherichia coli.

Molecular Weight:

Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids.

Quantity:

 $2\mu g/10\mu g/1000\mu g$

AA Sequence:

KPVSLSYRCP CRFFESHIAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE

YLEKALNKRL 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 human peripheral blood monocytes is in a concentration range of 50-100

ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.

Endotoxin:

Less than 1 EU/μg of rMuSDF-1β/CXCL12βas 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.

Murine Stromal-Cell Derived Factor-1 beta/CXCL12\beta

CXCL12 also known as SDF-1 is belonging to the CXC chemokine family. Murine CXCL12 is expressed as two isoforms that differ only in the C-terminal tail. Both 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. SDF-1 is highly conserved between species, murine CXCL12 β shares approximately 92 % amino acid sequence identity with human CXCL12 β .

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