

Product Datasheet

Recombinant Human Stromal-Cell Derived Factor-1beta/CXCL12 (rHuSDF-1b/CXCL12) (orb1495021)

Description Stromal-Cell Derived Factor-1 beta (SDF1β), also known as SCYB12, PBSF and

CXCL12, is an 8.3 kDa, heparin-binding member of the CXC (or alpha) family of chemokines and signal through the CXCR4 receptor. SDF1 α and β are reported

to be monomers at neutral pH and physiologic ionic strength, On the cell

and syndecan4. Heparin sulfate is known to protect SDF1 from proteolysis, and CXCR4 exists constitutively as a dimer. Among its many functions, CXCL12 is known to influence lymphopoiesis, regulate patterning and cell number of neural

surface, this may well facilitate SDF1 interaction with its two receptors, CXCR4

progenitors, and promote angiogenesis (12, 13). It also enhances the survival of

myeloid progenitor cells.

Endotoxins Less than 1EU/µg of rHuSDF-1b/CXCL12 as determined by LAL method.

Preservatives Sterile Filtered White lyophilized (freeze-dried) powder.

Form/Appearance Sterile Filtered White lyophilized (freeze-dried) powder.

Storage This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for

long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the

stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C.

Avoid repeated freeze/thaw cycles.

Note For research use only

Application notes 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.

Protein Sequence Lyophilized from a 0.2 m filtered concentrated solution in PBS, pH 7.4.

Purity KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE

YLEKALNKRF KM





Source Escherichia coli.

MW Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing

72 amino acid residues.

Expiration Date 6 months from date of receipt.