

Recombinant Human Stem Cell Factor(rHu SCF)

Catalog No: #70201

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Description

Product Name	Recombinant Human Stem Cell Factor(rHu SCF)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu SCF
Other Names	Hematopoietic growth factor KL, MGF, SCF
Accession No.	accession:P21583 GeneID:4254
Uniprot	P21583
GeneID	4254;
Calculated MW	Approximately 18.5 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	EGICRNRVTN NVKDVTKLVA NLPKDYMITL KYVPGMDVLP SHCWISEMVV QLSDSLTDLL DKFSNISEGL SNYSIIDKLV NIVDDLVECV KENSSKDLKK SFKSPEPRLF TPEEFFRIFN RSIDAFKDFV VASETSDCVV SSTLSPEKDS RVSVTKPFML PPVA
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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 reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

Stem Cell Factor (SCF) that binds to the c-Kit receptor is produced by fibroblasts and endothelial cells. The soluble and transmembrane forms of the protein are formed by alternative splicing of the same RNA transcript and the presence of both soluble and transmembrane SCF is required for normal hematopoietic function. SCF plays an important role in hematopoiesis, spermatogenesis, and melanogenesis. It also promotes mast cell adhesion, migration, proliferation, and survival. Human SCF shares 79 % - 87 % a.a. sequence identity with canine, feline, mouse, and rat SCF. Furthermore, human SCF is weakly active on mouse cells.

References

1. Ronnstrand L. 2004. Cell Mol Life Sci. 61:2535-48.
2. Anderson DM, Williams DE, Tushinski R, et al. 1991. Cell Growth Differ. 2:373-8.
3. Brannan CI, Lyman SD, Williams DE, et al. 1991. Proc Natl Acad Sci U S A. 88:4671-4.
4. Okayama Y, Kawakami T. 2006. Immunol Res. 34:97-115.

Note: This product is for in vitro research use only