

Canine SCF Recombinant Protein



RPPB0951

Product Information Protein Information

Product SKU:

RPPB0951

Host:

Escherichia Coli.

Protein description:

Stem Cell Factor Canine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 165 amino acids and having a molecular mass of 18.4kDa Dalton. The SCF is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Kit ligand Precursor, C-kit ligand, SCF, Mast cell growth factor, MGF, SF, KL-1, Kitl, DKFZp686F2250.

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Purity:

Greater than 97.0% as determined by HPLC and SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Stem Cell Factor in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized SCF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SCF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

KGICGKRVTD DVKDVTKLVA NLPKDYKIAL KYVPGMDVLP SHCWISVMVE QLSVSLDLL DKFSNISEGL
SNYSIIDKLV KIVDDLVECT EGYSFENVKK APKSPELRLF TPEEFFRIFN RSIDAFKDL E TVASKSSECV VSSTLSPDKD
SRVSVTKPFM LPPVA

Biological Activity:

Fully biologically active when compared to standard. The ED₅₀ as calculated by the dose-dependent stimulation of the proliferation of human TF-1 cells is less than 2.0ng/ml, corresponding to a specific activity of 5,000,000IU/mg.