

32-1747: SCF HEK Recombinant Protein

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

Description

Source : HEK. SCF Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 35-45kDa due to glycosylation. The SCF is purified by proprietary chromatographic techniques. Stem cell factor / KIT ligand (SCF) is a cytokine which binds CD117(c-Kit). SCF is also known as 'steel factor' or 'c-kit ligand'. SCF exists in two forms, cell surface bound SCF and soluble (or free) SCF. Soluble SCF is produced by the cleavage of surface bound SCF by metalloproteases. SCF is a growth factor important for the survival, proliferation, and differentiation of hematopoietic stem cells and other hematopoietic progenitor cells. One of its roles is to change the BFU-E (burst-forming unit-erythroid) cells, which are the earliest erythrocyte precursors in the erythrocytic series, into the CFU-E (colony-forming unit-erythroid).

Product Info

Amount :	10 µg
Purification :	Greater than 95% as observed by SDS-PAGE.
Content :	SCF was lyophilized from a 0.2µm filtered solution (1mg/ml) containing 1xPBS.
Storage condition :	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.

Application Note

It is recommended to reconstitute the lyophilized SCF in sterile PBS containing 0.1% endotoxin-free recombinant HSA. The specific activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line). The EC50 is 15.25ng/ml.

