9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SCF Human, HEK

Stem Cell Factor Human Recombinant, HEK
GRF0370

Product Overview

Name	SCF Human, HEK
Description	
Stem Cell Factor Human Recombinant, HEK	
Accession (Primary)	P21583
Synonyms	
Kit ligand Precursor, C-kit ligand, SCF, Mast cell growth factor, MGF, SF, KL-1, Kitl, DKFZp686F2250.	
Introduction	
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).	
Source	
HEK.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
SCF was lyophilized from a 0.2 μm filtered solution (1mg/ml) containing 1xPBS.	
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.	
Purity	
Greater than 95% as obsereved by SDS-PAGE.	
Biological Activity	
The specific activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line). The EC 50 is 15.25ng/ml.	

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Solubility

It is recommended to reconstitute the lyophilized SCF in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Precautions

SCF Human, HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P21583)