

Recombinant Human c-Kit ligand/KITLG/SCF Protein

Catalog No.: RP00124

Sequence Information

Species	Gene ID
Human	4254
Swiss Prot	Tags
P21583	C-His

Synonyms

KITLG,DCUA,DFNA69,FPH2,FPHH, KL-1,Kitl,MGF,SCF,SF,SHEP7

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
21.89 kDa	30-40 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The protein is tyrosine-kinase receptor. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis.

Basic Information

Description

Recombinant Human c-Kit ligand/KITLG/SCF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu26-His214) of human SCF/C-kit ligand (Accession #NP_000890.1) fused with a 6×His tag at the C-terminus.

Activity

1. Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.08-0.3 ng/mL.
2. Measured by its binding ability in a functional ELISA. Immobilized recombinant human SCF at 1 μg/mL (100 μL/well) can bind recombinant human CD117 with a linear range of 1-6 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

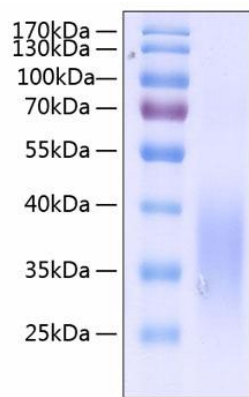
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

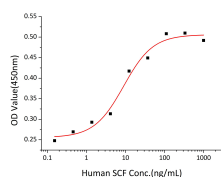
Contact

		400-999-6126
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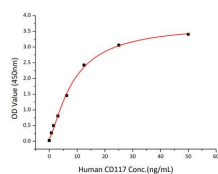
Validation Data



Recombinant Human c-Kit ligand/KITLG/SCF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED_{50} for this effect is 4.47-17.88 ng/mL, corresponding to a specific activity of $5.59 \times 10^4 \sim 2.24 \times 10^5$ units/mg.



Immobilized recombinant human SCF at 1 μ g/mL (100 μ L/well) can bind recombinant human CD117 with a linear range of 1-6 ng/mL.