

Recombinant Human c-Kit ligand/KITLG/SCF Protein

Catalog No.: RP00124 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 4254 P21583

Tags

C-His

Synonyms

KITLG;DCUA;DFNA69;FPH2;FPHH;KL-1;Kit I;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/ μ g 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

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.

Bio-Activity

1.Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED $_{50}$ 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 μ g/mL (100 μ L/well) can bind recombinant human CD117 with a linear range of 1-6 ng/mL.

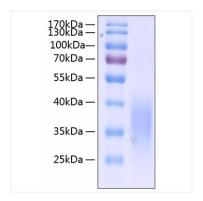
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

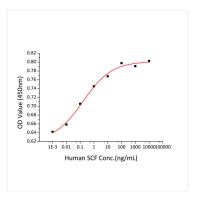
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

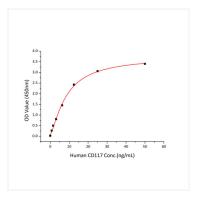
Validation Data



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



Recombinant Human SCF promotes the proliferation of TF-1 human erythroleukemic cells. The ED $_{50}$ for this effect is 0.08-0.3ng/mL.



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