

Recombinant Mouse c-Kit ligand/KITLG/SCF Protein

Catalog No.: RP01055

Sequence Information

Species **Gene ID**
 Mouse 17311

Swiss Prot **Tags**
 P20826-1 C-His

Synonyms

KITLG,FPH2,KL-1,Kitl,MGF,SCF,SF,
 SHEP7,KL,SCF/KITLG

Product Information

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

Calculated MW **Observed MW**
 19.14 kDa 18-38 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

Basic Information

Description

Recombinant Mouse c-Kit ligand/KITLG/SCF Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Lys26-Ala189) of mouse SCF (Accession #NP_038626.1.) 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 0.5-1.0 ng/mL, corresponding to a specific activity of 1.0×10⁶-2.0×10⁶ units/mg.
 2. Measured by its binding ability in a functional ELISA. Immobilized recombinant Mouse SCF at 2 μg/mL (100 μL/well) can bind recombinant human CD117 with a linear range of 1.5-10 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.

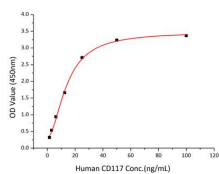
Contact

☎ | 400-999-6126

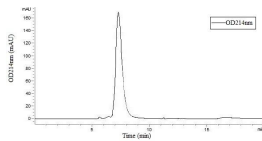
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

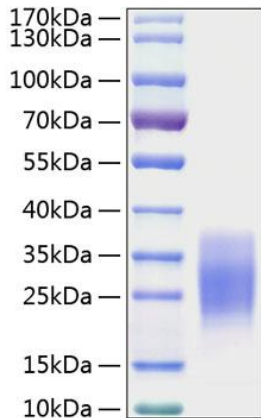
Validation Data



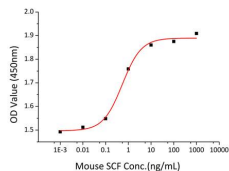
Immobilized recombinant Mouse SCF at 2 µg/mL (100 µL/well) can bind recombinant human CD117 with a linear range of 1.5-10ng/mL.



Recombinant Mouse c-Kit ligand/KITLG/SCF Protein is greater than 95% as determined by SEC-HPLC.



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



Recombinant Mouse SCF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 0.5-1.0 ng/mL, corresponding to a specific activity of 1.0×10⁶-2.0×10⁶ units/mg.