

Recombinant Human c-Kit ligand/KITLG/SCF Protein

RPCB0290

Description

This high-purity Recombinant Human c-Kit ligand/KITLG/SCF Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB0290
Contents:	10 µg, 20 µg, 50 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	KITLG, DCUA, DFNA69, FPH2, FPHH, KL-1, Kitl, MGF, SCF, SF, SHEP7
Species:	Human
Gene ID:	4254
Expression Host:	HEK293 cells
Tags:	C-His
Calculated MW:	21.89 kDa
Observed MW:	30-40 kDa
Purification:	≥ 95 % as determined by SDS-PAGE.
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.
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.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

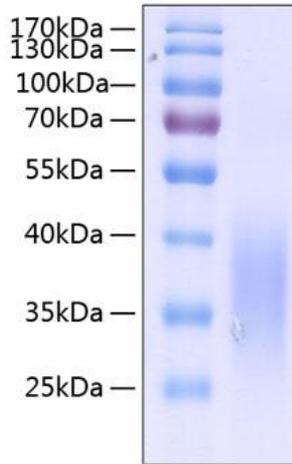
2. Measured by its binding ability in a functional ELISA. Immobilized recombinant human SCF at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind recombinant human CD117 with a linear range of 1-6 ng/mL.

Preparation & Storage

- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- 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 $2-8^{\circ}\text{C}$ for up to 1 week.
Store Bradford Reagent at Room Temperature for 1 Year.
- 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.
- Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

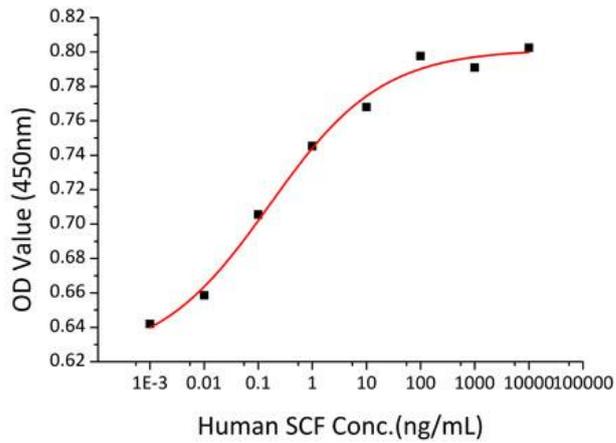
Validation Data

Image



Description

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 ED50 for this effect is 0.08-0.3ng/mL.