Recombinant Human c-Kit/CD117 Protein

Catalog No.: RP00114

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Sequence Information

Species
Human

Gene ID
3815

Swiss Prot
P10721

Tags
C-hFc&His

Synonyms
KIT,C-Kit,CD117,PBT,SCFR,c-kit

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
82.44 kDa

Observed MW
100-125 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous lukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

Basic Information

Description
Recombinant Human c-Kit/CD117 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln26-Thr520) of human KIT/c-KIT/CD117 (Accession #NP_000213.1) fused with an Fc, 6×His tag at the C-terminus.

Activity
1.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.
2.Measured by its binding ability in a functional ELISA. Immobilized Human SCF at 2 μg/mL (100 μL/well) can bind c-Kit/CD117 with a linear range of 0.049-9.11 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℃

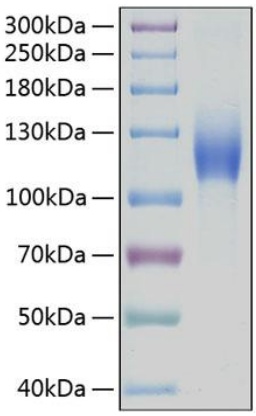
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

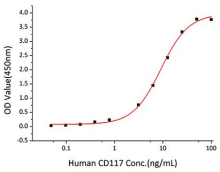
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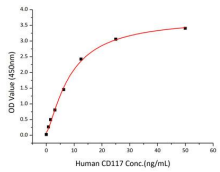
Validation Data



Recombinant Human c-Kit/CD117 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human SCF at 2 μg/mL (100 μL/well) can bind c-Kit/CD117 with a linear range of 0.049-9.11 ng/mL.



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.