

Recombinant Human c-Kit/CD117 Protein

Catalog No.: RP00432

Sequence Information

Species **Gene ID**
Human 3815

Swiss Prot **Tags**
P10721 C-6His

Synonyms

KIT, SCFR, Mast/stem cell growth factor receptor Kit, SCFR, CD117, PBT,c-Kit

Product Information

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

Calculated MW **Observed MW**
56.47 kDa 70-100 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

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

CD117, also known as c-Kit or stem cell factor receptor (SCFR), is a type III receptor tyrosine kinase encoded by the KIT proto-oncogene. It serves as a core molecule regulating the proliferation, differentiation and survival of hematopoietic stem cells, melanocytes, germ cells and mast cells. The physiological ligand of CD117 is stem cell factor (SCF). Under pathological conditions, gain-of-function mutations in the KIT gene (such as mutations in exon 11 or exon 9) constitute a key mechanism driving the development of gastrointestinal stromal tumors (GIST) and systemic mastocytosis.

Basic Information

Description

Recombinant Human c-Kit/CD117 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Thr520) of Human c-Kit/CD117 (Accession # NP_001087241.1) fused with His tag at the C-Terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human SCF (Catalog: RP00124) at 2μg/mL (100μL/well) can bind Human c-Kit /CD117 (Catalog: RP00432) with a linear range of 0.03-0.80 μg/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.

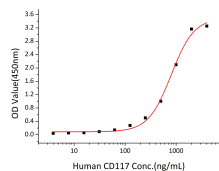
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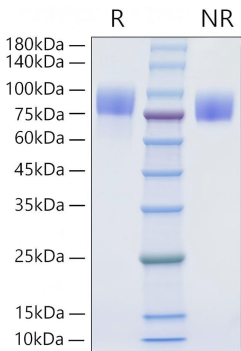
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Validation Data



Measured by its binding ability in a functional ELISA. Immobilized Human SCF (Catalog: RP00124) at 2µg/mL (100µL/well) can bind Human c-Kit/CD117 (Catalog: RP00432) with a linear range of 0.03-0.80 µg/mL .



Recombinant Human c-Kit/CD117 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.