

RP00585

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Recombinant Human c-kit/CD117/Mast/stem Cell Growth Factor Receptor Kit Protein

Catalog No.: RP00585

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	3815	P10721

Tags
C-6×His

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

Product Information

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

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

C-Kit/SCF R is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). c-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains and 1 protein kinase domain. It belongs to the protein kinase superfamily and CSF-1/PDGF receptor subfamily. SCF R expression on mast cells enables them to infiltrate SCF-secreting tumors where they promote tumor growth and induce local immunosuppression. SCF R is up-regulated on dendritic cells by Th2-orTh17-biasing stimuli, and it is required for subsequent dendritic cell induction of Th2 and Th17 responses. SCF R protects vascular smooth muscle cells from apoptosis and assists in the recovery of cardiac function following myocardial infarction.

Basic Information

Description
Recombinant Human c-kit/CD117/Mast/stem Cell Growth Factor Receptor Kit Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Gln26-Thr520) of human c-kit/CD117/Mast/stem Cell Growth Factor Receptor Kit (Accession #P10721) fused with a 6×His tag at the C-terminus.

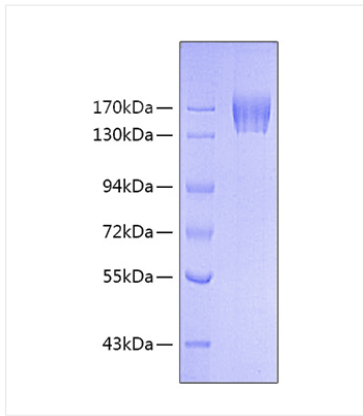
Bio-Activity
Measured by its ability to inhibit SCF-dependent proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 2-6 μg/mL in the presence of 8 ng/mL of recombinant human CD117.

Storage
Store the lyophilized protein at -20°C to -80 °C for long term. 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.

Contact

 | www.abclonal.com

Validation Data



Recombinant Human c-kit/CD117/Mast/stem Cell Growth Factor Receptor Kit Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.