

RP00553

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Recombinant Mouse SCF/stem cell factor Protein

Catalog No.: RP00553

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	17311	P20826

Tags

No tag

Synonyms

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

Product Information

Source	Purification
<I>E. coli</I>	> 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

Mouse stem cell factor (SCF), is the ligand for the receptor-type protein-tyrosine kinase KIT. It plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. It also promotes phosphorylation of PIK3R1, which is the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and STAT5.

Basic Information

Description

Recombinant Mouse SCF/stem cell factor Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Lys26-Ala189) of mouse SCF/stem cell factor (Accession #P20826) fused with an initial Met at the N-terminus.

Bio-Activity

Storage

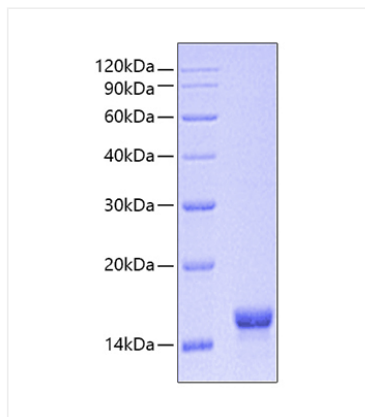
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant Mouse SCF/stem cell factor
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.