Recombinant Rat SCF/c-Kit Ligand Protein (E.coli, His ⁶⁶ Tag)



Catalog Number: PKSR030452

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms FPH2;KIT ligand;Kitl;KITLG;KL-1;Mast cell growth

factor;MGF;MGFSHEP7;SCF;SFc-Kit ligand;SLF;steel factor;Stem Cell Factor;c-

kit Ligand

Species Rat **Expression Host** E.coli

Sequence Gln26-Ala189

Accession P21581
Calculated Molecular Weight 19.3 kDa
Observed molecular weight 18 kDa
Tag C-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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

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members STAT1, STAT3 and STAT5.

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