

Recombinant mouse c-kit Ligand/SCF protein

Catalog Number: ATGP3345

PRODUCT INFORMATION

Expression system

E.coli

Domain

26-189aa

UniProt No.

P20826

NCBI Accession No.

NP_038626

Alternative Names

Kit ligand, KITLG, Mast cell growth factor, MGF, Stem cell factor, SCF, c-Kit ligand, Steel factor, SF, Kitl, Hematopoietic growth factor KL, KL-1, Familial progressive hyperpigmentation 2, FPH2, SLF, blz, Gb, Grizzle-belly, SL

PRODUCT SPECIFICATION

Molecular Weight

18 kDa (165aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in a cell proliferation assay using MC/9 mouse mast cells. The ED50 range ≤ 7 ng/ml.

Tag

Non-Tagged

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

Stem Cell Factor (SCF) is a glycoprotein that plays a key role in hematopoiesis acting both as a positive and negative regulator, often in synergy with other cytokines. SCF binds to and activates the SCF receptor (SCFR), a receptor tyrosine kinase. SCF stimulates the proliferation of mast cells and is able to augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. It also mediates cell-cell adhesion and acts synergistically with other cytokine. Recombinant mouse SCF was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

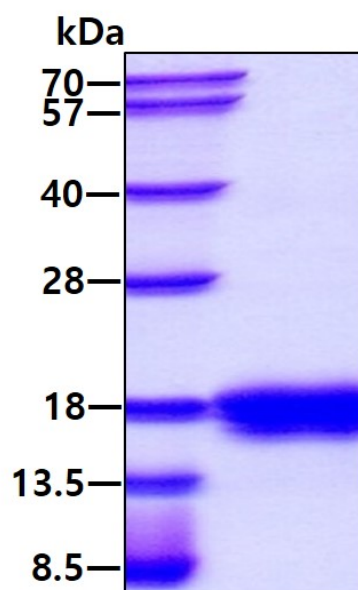
MKEICGNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV IQLSLSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDLVL MEENAPKNIK ESPKRPETRS FTPEEFFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA

General References

Zhang Z., et al. (2000). Proc. Natl. Acad. Sci. U.S.A. 97, 7732.
Okada S , et al. (1992). Nippon Rinsho , 50, 1872.

DATA

SDS-PAGE

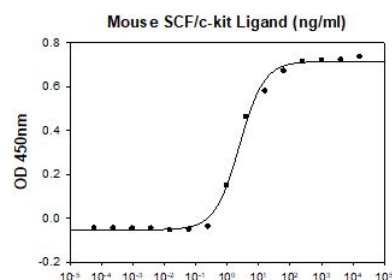


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Mouse SCF/c-kit Ligand stimulates cell proliferation of the MC/9 mouse mast cells. The ED50 range ≤ 7 ng/ml.