

Datasheet for ABIN1589652 **KIT Ligand Protein (KITLG)**



Overview

Overview	
Quantity:	2 µg
Target:	KIT Ligand (KITLG)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Purpose:	SCF
Sequence:	MKEICGNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV IQLSLSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDLVLC MEENAPKNIK ESPKRPETRS FTPEEFFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA
Specificity:	Chromosomal location:10 D1, 10 57.0 cM
Characteristics:	Length (aa):165
Purity:	> 95 % by SDS-PAGE
Endotoxin Level:	< 0.1 ng per µg of mSCF
Target Details	
Target:	KIT Ligand (KITLG)
Alternative Name:	SCF (KITLG Products)

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Target Details

Background:	Stem cell factor (SCF), also known as ckit ligand (KL), mast cell growth factor (MGF), and steel
	factor (SLF), is a widely expressed 28-40 kDa type I transmembrane glycoprotein. It promotes
	the survival, differentiation, and mobilization of multiple cell types including myeloid, erythroid,
	megakaryocytic, lymphoid, germ cell, and melanocyte progenitors. SCF is a primary growth and
	activation factor for mast cells and eosinophils. Mature mouse SCF consists of a 189 amino
	acid (aa) extracellular domain (ECD), a 23 aa transmembrane segment, and a 36 aa
	cytoplasmic tail. Proteolytic cleavage at two alternate sites in the extracellular juxtamembrane
	region releases a 25 kDa soluble. An alternately spliced isoform of mouse SCF lacks 28 aa that
	encompasses the primary proteolytic recognition site. Within the ECD of the short isoform,
	mouse SCF shares 93% aa sequence identity with rat SCF and 72 %-75 % with canine, feline,
	and human SCF. Rat SCF is active on mouse and human cells, but human SCF is only weakly
	active on mouse cells. Noncovalent dimers of transmembrane or soluble SCF interact with the
	receptor tyrosine kinase SCF R/ckit to trigger receptor dimerization and signaling.
	Synonyms: Kitl, Gb, SF, Sl, Clo, Con, Mgf, SCF, SLF, Kitlg, contrasted
Molecular Weight:	18.42 kDa

Wolecular Weight.	
Gene ID:	17311
NCBI Accession:	NM_013598, NP_038626
UniProt:	P20826
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway

Application Details

Application Notes:	The ED50 as determined by the dose-dependent stimulation of the proliferation of the human
	TF-1 cell line is in the range of 2-10 ng/mL.
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge vial prior to opening. Mouse SCF should be reconstituted in 50 mM acetic acid or water to a concentration of 0.1 mg/mL. This solution can be diluted in water or other buffer solutions or stored at -20 °C.

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Buffer:	50 mM aceetic acid
Handling Advice:	Avoid repeated freeze-thaw cycles. Freeze/thaw cycles will result in significant loss of activity.
Storage:	0°0
Storage Comment:	The lyophilized mouse SCF is best stored desiccated below 0°C. Freeze/thaw cycles will result in significant loss of activity. Avoid repeated freeze-thaw cycles.