Recombinant Human KIT Ligand

Cat. No. KITLG-1245H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KITLGis expressed in human 293 cells as a monomeric glycoprotein with an apparent molecularmass of 35 to 45 kDa.
Species	Human
Source	HEK293
Description	KITLG (also knownas SCF, kit-ligand, KL, or steel factor) is a cytokine that binds to thec-Kit receptor (CD117). KITLG can exist both as a transmembrane protein and asoluble protein. This cytokine plays an important role in hematopoiesis(formation of blood cells), spermatogenesis, and melanogenesis.
MolecularWeight	35 to 45 kDa,monomer, glycosylated
Purity	>95% The proteinwas resolved by SDS polyacrylamide gel electrophoresis and the gel wasstained with Coomassie blue.
Endotoxin Level	Endotoxin Free<1 EU/μg
Biological Activity	5 to 25 ng/mL ED50
Specific Activity	The specificactivity was determined by the dose-dependent stimulation of the proliferationof human TF-1 cells (human erythroleukemic indicator cell line).
OfficialSymbol	KITLG

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GENE INFORMATION

Gene Name	KITLG KIT ligand [Homosapiens]
Synonyms	KITLG; KIT ligand;SF; MGF; SCF; FPH2; KL-1; Kitl; SHEP7; kit-ligand; DKFZp686F2250; kit ligand;c-Kit ligand; steel factor; stem cell factor; OTTHUMP00000242388;OTTHUMP00000242389; OTTHUMP00000242390; mast cell growth factor; familialprogressive hyperpigmentation 2
Gene ID	4254
mRNA Refseq	NM_000899
Protein Refseq	NP_000890
MIM	184745
UniProt ID	P21583
Chromosome Location	12q22
Pathway	C-MYB transcriptionfactor network; Cytokine-cytokine receptor interaction; Hematopoietic celllineage; Kit Receptor Signaling Pathway; Melanogenesis; Pathways in cancer;Regulation of KIT signaling; Signal Transduction; Signaling by SCF-KIT;Signaling events mediated by Stem cell factor receptor (c-Kit)
Function	cytokine activity;growth factor activity; protein binding; stem cell factor receptor binding
PDB rendering basedon 1exz.	

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