

Kit ligand (KITLG) Active Protein | KITLG active protein

Recombinant Human Kit ligand (KITLG), partial (Active)

CATALOG #
AAA279357

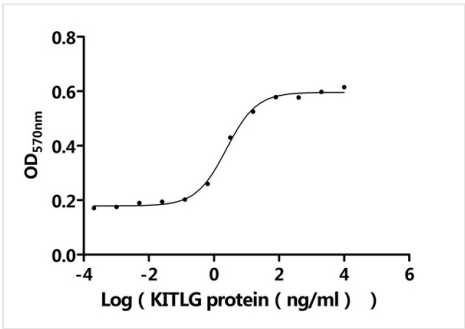
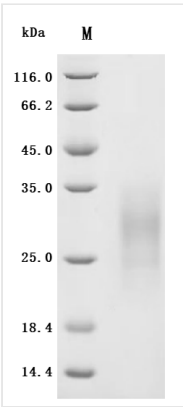
HOST
Mammalian Cell

PRODUCT SYNONYMS

Kit ligand (KITLG); Recombinant Human Kit ligand (KITLG); partial (Active); Kit ligand; Mast cell growth factor; Stem cell factor; c-Kit ligand; Soluble KIT ligand; KITLG active protein

PRODUCT SPECIFICATIONS

Host	Mammalian Cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder; Lyophilized from a 0.2um sterile filtered PBS, 6% Trehalose, pH 7.4
Sequence	EGICRNRVTN NVKDVTKLVA NLPKDYMITL KYVPGMDVLP SHCWISEMVV QLSDSLTDLL DKFSNISEGL SNYSIIDKLIV NIVDDLVECV KENSSKDLKK SFKSPEPRLF TPEEFFRIFN RSIDAFKDFV VASETSDCVV SSTLSPEKDS RVSVTKPFML PPVA
Sequence Length	26-189aa; Partial
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Biological Activity	The ED50 as determined by the dose-dependent stimulation of the proliferation of MO7e cells is 1.813-3.203ng/mL.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.



Activity

SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for KITLG active protein	Ligand for the receptor-type protein-tyrosine kinase KIT. 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. Promotes phosphorylation of PIK3R1, 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. KITLG/SCF and KIT promote activation of PLCG1, leading to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. KITLG/SCF acts synergistically with other cytokines, probably interleukins.
Product Categories/Family for KITLG active protein	Immunology
References	The full-ORF clone resource of the German cDNA consortium. Bechtel S., Rosenfelder H., Duda A., Schmidt C.P., Ernst U., Wellenreuther R., Mehrle A., Schuster C., Bahr A., Schupp I.BMC Genomics 8:399-399 (2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505175
NCBI GeneID	4254
NCBI Accession #	NP_000890.1
NCBI GenBank Nucleotide #	NM_000899.4
UniProt Accession #	P21583; Q16487; Q68DZ2; Q7M4N8; Q9UQK7; A0AV09; A8K2Q4; B7ZLM4
Molecular Weight	273
NCBI Official Full Name	kit ligand isoform b
NCBI Official Synonym Full Names	KIT ligand
NCBI Official Symbol	KITLG
NCBI Official Synonym Symbols	SF; MGF; SCF; FPH2; KL-1; Kitl; SHEP7
NCBI Protein Information	kit ligand; c-Kit ligand; steel factor; stem cell factor; mast cell growth factor; familial progressive hyperpigmentation 2
UniProt Protein Name	Kit ligand
UniProt Gene Name	KITLG

UniProt Synonym Gene Names	MGF; SCF; MGF; SCF; sKITLG
UniProt Entry Name	SCF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mammalian-cell-active-protein/kit-ligand-kitlg/279357>