## **Product Datasheet**

## Recombinant Human Kit ligand(KITLG), partial

Catalog No: #AP70472

Package Size: #AP70472-1 20ug #AP70472-2 100ug #AP70472-3 1mg



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Product Name	Recombinant Human Kit ligand(KITLG),partial	
Host Species	E.coli	
Purification	Greater than 90% as determined by SDS-PAGE.	
Immunogen Description	Expression Region:26-189aaSequence Info:Partial	
Other Names	Mast cell growth factor ;MGFStem cell factor ;SCFc-Kit ligand	
Accession No.	P21583	
Calculated MW	45.5 kDa	
Tag Info	N-terminal GST-tagged	
Target Sequence	EGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSHCWISEMVVQLSDSLTDLLDKFSNISEGLSNYS	
	IIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSSTLSPEKDS	
	RVSVTKPFMLPPVA	
Formulation	Tris-based buffer50% glycerol	
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°C,-80°C. The shelf life of lyophilized form is 12 months	
	at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for	
	up to one week.	

## Background

Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the regulation of cell survival and proliferation, hatopoiesis, st 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 mbers 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.

## 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., Bloecker H., Heubner D., Hoerlein A., Michel G., Wedler H., Koehrer K., Ottenwaelder B., Poustka A., Wiemann S., Schupp I.BMC Genomics 8:399-399(2007)Research Topic:Developmental Biology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.