

# Product datasheet for TP723775

## Kitl (NM\_013598) Mouse Recombinant Protein

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse kit ligand (Kitl / SCF )
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Mouse SCF, the region of Lys26-Ala189, from gene Accession# NM_013598
Tag:	Tag Free
Predicted MW:	18.3 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM NaHPO4 pH 7.2, 0.15M NaCl
Bioactivity:	The ED50 is 15 ng/ml, corresponding to a specific activity of 6.7 x 10^4 units/mg, determined by the dose dependent stimulation of TF-1 cell proliferation.
Endotoxin:	Less than 0.01 ng per $\mu g$ protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	<u>NP 038626</u>
Locus ID:	17311
UniProt ID:	P20826
RefSeq Size:	5449
Cytogenetics:	10 51.4 cM
RefSeq ORF:	819
Synonyms:	blz; Clo; Con; contrasted; Gb; Kitlg; Mgf; SCF; SF; Sl; SLF

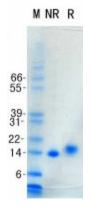


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#### **GRIGENE** Kitl (NM\_013598) Mouse Recombinant Protein – TP723775

Summary:Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the<br/>regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance,<br/>gametogenesis, mast cell development, migration and function, and in melanogenesis.<br/>KITLG/SCF binding can activate several signaling pathways. Promotes phosphorylation of<br/>PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of<br/>the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS,<br/>RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote<br/>activation of STAT family members STAT1, STAT3 and STAT5. KITLG/SCF and KIT promote<br/>activation of PLCG1, leading to the production of the cellular signaling molecules<br/>diacylglycerol and inositol 1,4,5-trisphosphate. KITLG/SCF acts synergistically with other<br/>cytokines, probably interleukins.[UniProtKB/Swiss-Prot Function]

### **Product images:**



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