

## Product datasheet for **TP723775**

### Kitl (NM\_013598) Mouse Recombinant Protein

#### Product data:

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 $6.7 \times 10^4$ 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:	<a href="#">NP_038626</a>
Locus ID:	17311
UniProt ID:	<a href="#">P20826</a>
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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**Summary:**

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.[UniProtKB/Swiss-Prot Function]

**Product images:**