

Active Recombinant Mouse Kitl protein(Met1-Ala189), His-tagged

Cat. No. Kitl-575M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse KITL (P20826-1) was expressed in Insect Cells, fused with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	Insect Cells
ProteinLength	Met1-Ala189
Form	Lyophilized from sterile 20mM Tris, 50mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized mouse KITL at 2 µg/ml (100 µl/well) can bind mouse CD117 with a linear range of 1.28-32 ng/ml. 2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 5-30 ng/mL.
Molecular Mass	The secreted recombinant mouse KITL consists of 175 amino acids and has a calculated molecular mass of 19.7 kDa. The recombinant protein migrates as an approximately 23 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	Kitl kit ligand [<i>Mus musculus</i>]
Official Symbol	Kitl
Synonyms	KITL; kit ligand; cloud gray; C-kit ligand; Steel factor; grizzle-belly; stem cell factor; mast cell growth factor; hematopoietic growth factor KL; Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; Kitlg; contrasted;
Gene ID	17311
mRNA Refseq	NM_013598
Protein Refseq	NP_038626

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