Bioactive

KITLG (Human) Recombinant Protein

Catalog # P9178 Size 2 x 10 ug

Specification

Product Description	Human KITLG recombinant protein expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	18.4
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	chromatographic
Purity	> 98% as determined by (a) SEC-HPLC.(b) SDS-PAGE.
Activity	ED_{50} < 2 ng/mL, determined by the dose-dependant stimulation of Human TF-1 cells, corresponding to a specific activity of 5 x 10^5 IU/mg.
Storage Buffer	Protein (1 mg/mL) was lyophilized from a solution containing 0.02% $NaHCO_3$. Reconstitute the lyophilized powder in ddH_2O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — KITLG

Entrez GeneID	4254

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Protein Accession#	P21583
Gene Name	KITLG
Gene Alias	DKFZp686F2250, KL-1, Kitl, MGF, SCF, SF, SHEP7
Gene Description	KIT ligand
Omim ID	184745
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	mast cell growth factor|steel factor|stem cell factor

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Melanogenesis
- Pathways in cancer

Disease

- Asthma
- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

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- Infertility
- Neoplasms
- Testicular Neoplasms
- Vitiligo

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