Bioactive

KITLG (Human) Recombinant Protein

Catalog # P9181 Size 2 x 10 ug

Specification

Product Description	Human KITLG recombinant protein with His tag in C-terminus expressed in insect cells.
Host	insect
Theoretical MW (kDa)	18.4
Specificity	SCF Human, Sf9
Form	Lyophilized
Preparation Method	Insect cell expression system
Purification	chromatographic
Purity	> 98% as determined by SDS-PAGE.
Activity	ED_{50} is 1-5 ng/mL, measured by the dose-dependent stimulation of Human TF-1 cells.
Storage Buffer	Lyophilized from IX PBS solution, pH7.4. Reconstitute the lyophilized powder in 10 mM acetic acid 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

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Entrez GeneID	4254
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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