

Bioactive

KITLG (Human) Recombinant Protein

Catalog # P3666

Size 10 ug

Specification

Product Description	Human KITLG (P21583, 26 a.a. - 189 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	EGICRNRVTNNVKDVTKLVANLPKDYMITLKYPGMDVLP SHCWISEM VVQLSDSLTDLLDKFSNI SEGLSNYSIIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVAS ETSDCVVSSTLSPEKDSRVSVTKPFMLPPVA
Host	Escherichia coli
Theoretical MW (kDa)	18
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is ≤ 2.0 ng/mL, corresponding to a specific activity of ≥ 5 x 10 ⁵ units/mg.
Storage Buffer	Lyophilized from PBS, pH 7.0
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

- SDS-PAGE

Gene Info — KITLG

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](#)
- [Infertility](#)
- [Neoplasms](#)
- [Testicular Neoplasms](#)
- [Vitiligo](#)