

Bioactive

KITLG (Human) Recombinant Protein

Catalog # P5930

Size 10 ug, 50 ug, 100 ug

Specification

Product Description	Human KITLG (181 a.a.) partial recombinant protein with His tag expressed in Barley grain (<i>Hordeum vulgare</i>). This protein is endotoxins-free and thus optimal to use in stem cell cultures.
Host	Plants
Theoretical MW (kDa)	20.7
Reactivity	Human
Form	Lyophilized
Preparation Method	<i>Hordeum vulgare</i> (barley) expression system
Purification	Chromatography
Purity	> 95% by SDS-PAGE
Endotoxin Level	Endotoxin level is less than 0.005ng per ug (0.05EU/ug) as measured by LAL assay.
Activity	Activity has been measured by cell-based proliferation assay using TF-1 cells. The ED ₅₀ is typically 2 - 10 ng/mL.
Storage Buffer	Lyophilized from PBS, pH 7.2
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis

Applications

- Western Blot (Recombinant protein)
- Functional Study

- SDS-PAGE

Gene Info — KITLG

Entrez GeneID	4254
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](#)