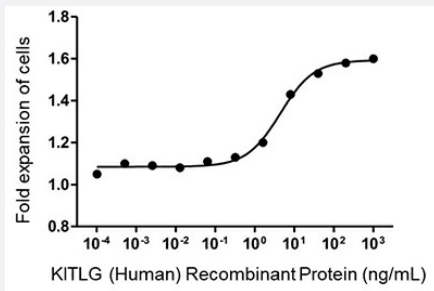


Bioactive

KITLG (Human) Recombinant Protein

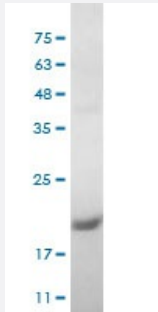
Catalog # P7012 Size 100 ug

Applications



Functional Study

The ED₅₀ for this effect is <5 ng/mL, measured by the induction of TF-1 cells proliferation.



Specification

Product Description	Human KITLG recombinant protein with polyhistidine tag at the C-terminus expressed in <i>Escherichia coli</i> .
Sequence	MEGICRNRVTNNVKDVTCLVANLPKDYMITLKYPGMDVLPSCWISEMVVQLSDSLTDLLDKFS NISEGLSNYSIIDKLVNVDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVA SETSDCVVSSTLSPEKDSRVSVTKPFMLPPVA
Host	<i>Escherichia coli</i>
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system

Purification	Ni-NTA chromatography
Purity	> 98% by SDS-PAGE
Endotoxin Level	< 0.1 EU per 1 ug of the protein by the LAL method.
Activity	Measured by the induction of TF-1 cells proliferation. The ED 50 for this effect is < 5 ng/mL. The specific activity of recombinant human SCF is > 5 x 10 ⁵ IU/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store at -20°C, lyophilized protein is stable for 1 year. After reconstitution with deionized water, store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

The ED₅₀ for this effect is <5 ng/mL, measured by the induction of TF-1 cells proliferation.

- 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](#)