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KIT Ligand Protein (KITLG) (AA 26-214) (His tag)



Image



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Quantity:	1 mg		
Target:	KIT Ligand (KITLG)		
Protein Characteristics:	AA 26-214		
Origin:	Human		
Source:	Escherichia coli (E. coli)		
Protein Type:	Recombinant		
Purification tag / Conjugate:	This KIT Ligand protein is labelled with His tag.		
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)		
Product Details			
Sequence:	EGICRNRVTN NVKDVTKLVA NLPKDYMITL KYVPGMDVLP SHCWISEMVV QLSDSLTDLL		
	DKFSNISEGL SNYSIIDKLV NIVDDLVECV KENSSKDLKK SFKSPEPRLF TPEEFFRIFN		
	RSIDAFKDFV VASETSDCVV SSTLSPEKDS RVSVTKPFML PPVAASSLRN DSSSSNRKAK		
	NPPGDSSLH		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a		
	special request, please contact us.		
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.		
	Human KITLG Protein (raised in E. Coli) purified by multi-step, protein-specific process to		
	ensure crystallization grade.State-of-the-art algorithm used for plasmid design (Gene synthesis).		
	This protein is a made to order protein and will be made for the first time for your order. Our		
	experts in the lab will ensure that you receive a correctly folded protein.		

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	KIT Ligand (KITLG)	
Alternative Name:	KITLG (KITLG Products)	
Background:	Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the regulation	
	of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast	
	cell development, migration and function, and in melanogenesis. KITLG/SCF binding can	

Expiry Date:

Target Details	
	activate several signaling pathways. Promotes phosphorylation of PIK3R1, the regulatory
	subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1.
	KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP
	kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT
	family members STAT1, STAT3 and STAT5. KITLG/SCF and KIT promote activation of PLCG1,
	leading to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-
	trisphosphate. KITLG/SCF acts synergistically with other cytokines, probably interleukins.
Molecular Weight:	22.0 kDa Including tag.
UniProt:	P21583
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway
A 1: 1: D 1:1	
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process