Kallikrein-14 (KLK14) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Kallikrein-14 (KLK14), Recombinant Protein
Full Product Name	Recombinant Human Kallikrein-14 (KLK14)
Product Gene Name	KLK14 recombinant protein
Product Synonym Gene Name	KLK14
Sequence	IIGGHTCTRS SQPWQAALLA GPRRRFLCGG ALLSGQWVIT AAHCGRPILQ VALGKHNLRR WEATQQVLRV VRQVTHPNYN SRTHDNDLML LQLQQPARIG RAVRPIEVTQ ACASPGTSCR VSGWGTISSP IARYPASLQC VNINISPDEV CQKAYPRTIT PGMVCAGVPQ GGKDSCQGDS GGPLVCRGQL QGLVSWGMER CALPGYPGVY TNLCKYRSWI EETMRDK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	29,122 Da
Sequence Positions	41-267, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	606135
3D Structure	ModBase 3D Structure for Q9P0G3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for KLK14 recombinant protein	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. An additional transcript variant has been described but its full length nature has not been determined.
Other Notes	Small volumes of KLK14 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KLK14 purchase	MBS1349752 is a recombinant protein targeting KLK14. Also known as Recombinant Human Kallikrein-14 (KLK14). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK14. It may not necessarily be applicable to this product.

NCBI GI #	908212436
NCBI GeneID	43847

NCBI Accession #	NP_001298111.1
UniProt Primary Accession #	Q9P0G3
UniProt Secondary Accession #	Q1RMZ2; Q6B089; A7UNK5
UniProt Related Accession #	Q9P0G3
GenBank Nucleotide #	NM_001311182.1
NCBI Official Full Name	kallikrein-14 preproprotein
NCBI Official Synonym Full Names	kallikrein related peptidase 14
NCBI Official Symbol	KLK14
NCBI Official Synonym Symbols	KLK-L6
UniProt Protein Name	Kallikrein-14
UniProt Synonym Protein Names	Kallikrein-like protein 6; KLK-L6
Protein Family	Kallikrein
UniProt Gene Name	KLK14
UniProt Synonym Gene Names	KLKL6; hK14; KLK-L6
NCBI Protein Information	kallikrein-14
NCBI Summary for KLK14	This gene encodes a member of the kallikrein subfamily of serine proteases that have diverse physiological functions such as regulation of blood pressure and desquamation. The altered expression of this gene is implicated in the progression of different cancers including breast and prostate tumors. The encoded protein is a precursor that is proteolytically processed to generate the functional enzyme. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
UniProt Comments for KLK14	Serine-type endopeptidase with a dual trypsin-like and chymotrypsin-like substrate specificity. May activate/inactivate the proteinase-activated receptors F2R, F2RL1 and F2RL3 and other kallikreins including KLK1, KLK3, KLK5 and KLK11. May function in seminal clot liquefaction through direct cleavage of the semenogelin SEMG1 and SEMG2 and activation of KLK3. May function through desmoglein DSG1 cleavage in epidermal desquamation a process by which the most superficial corneocytes are shed from the skin surface. May be involved in several aspects of tumor progression including growth, invasion and angiogenesis.
Research Articles on KLK14	**1.** increased KLK14 activity could contribute at multiple levels to HGF/Met-mediated processes in prostate and other cancers
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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