Protein Red (IK) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein Red (IK), Recombinant Protein
Full Product Name	Recombinant Human Protein Red (IK)
Product Gene Name	IK recombinant protein
Product Synonym Gene Name	IK
Sequence	MPERDSEPFS NPLAPDGHDV DDPHSFHQSK LTNEDFRKLL MTPRAAPTSA PPSKSRHHEM PREYNEDEDP AARRRKKKSY YAKLRQQEIE RERELAEKYR DRAKERRDGV NKDYEETELI STTANYRAVG PTAEADKSAA EKRRQLIQES KFLGGDMEHT HLVKGLDFAL LQKVRAEIAS KEKEEEELME KPQKETKKDE DPENKIEFKT RLGRNVYRML FKSKAYERNE LFLPGRMAYV VDLDDEYADT DIPTTLIRSK ADCPTMEAQT TLTTNDIVIS KLTQILSYLR QGTRNKKLKK KDKGKLEEKK PPEADMNIFE DIGDYVPSTT KTPRDKERER YRERERDRER DRDRDRERER ERDRERERER DREREEEKKR HSYFEKPKVD DEPMDVDKGP GSTKELIKSI NEKFAGSAGW EGTESLKKPE DKKQLGDFFG MSNSYAECYP ATMDDMAVDS DEEVDYSKMD QGNKKGPLGR WDFDTQEEYS EYMNNKEALP KAAFQYGIKM SEGRKTRRFK ETNDKAELDR QWKKISAIIE KRKKMEADGV EVKRPKY
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	65,602 Da
Sequence Positions	1-557, 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	600549
3D Structure	ModBase 3D Structure for Q13123
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IK recombinant protein	MBS1372365 is a recombinant protein targeting IK. Also known as Recombinant Human Protein Red (IK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of IK 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.

ADDITIONAL DETAILS

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

NCBI GI #	125988409
NCBI GeneID	3550

NCBI Accession #	NP_006074.2
UniProt Primary Accession #	Q13123
UniProt Secondary Accession #	Q6IPD8
UniProt Related Accession #	Q13123
GenBank Nucleotide #	NM_006083.3
NCBI Official Full Name	protein Red
NCBI Official Synonym Full Names	IK cytokine
NCBI Official Symbol	IK
NCBI Official Synonym Symbols	RED; RER; CSA2
UniProt Protein Name	Protein Red
UniProt Synonym Protein Names	Cytokine IK
Protein Family	Protein
UniProt Gene Name	IK
NCBI Protein Information	protein Red
NCBI Summary for IK	The protein encoded by this gene was identified by its RED repeat, a stretch of repeated arginine, glutamic acid and aspartic acid residues. The protein localizes to discrete dots within the nucleus, excluding the nucleolus. Its function is unknown. This gene maps to chromosome 5; however, a pseudogene may exist on chromosome 2. [provided by RefSeq, Jul 2008]
UniProt Comments for IK	Auxiliary spliceosomal protein that regulates selection of alternative splice sites in a small set of target pre-mRNA species (Probable). Required for normal mitotic cell cycle progression (PubMed:22351768, PubMed:24252166). Recruits MAD1L1 and MAD2L1 to kinetochores, and is required to trigger the spindle assembly checkpoint (PubMed:22351768). Required for normal accumulation of SMU1 (PubMed:24945353).
Research Articles on IK	**1.** IK inhibits Aurora B activation through recruiting PP2A into IK and Aurora B complex.
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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