

Cytokeratin 18 Recombinant Protein | KRT18 recombinant protein

Recombinant Human Cytokeratin 18

CATALOG #
AAA38447

PRODUCT SYNONYMS

Cytokeratin 18; Recombinant Human Cytokeratin 18; KRT18 Human; Cytokeratin 18 Human Recombinant; Keratin type I cytoskeletal 18; Cytokeratin-18; CK-18; Keratin-18; K18; KRT18; CYK18; Cell proliferation-inducing gene 46 protein; KRT18 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by analysis by SDS-PAGE
Form/Format	The protein (1mg/ml) was lyophilized from a sterile solution containing 30mM Tris-HCl pH-8, 9.5M urea, 2mM EDTA, 2mM DTT and 10mM methylammonium chloride.
Sequence Length	430
Stability	Lyophilized CK-18 although stable at room temperature for 3 weeks, should be stored between 2-8°C. Upon reconstitution CK-18 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Source	E.coli
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized 1mg CK-18 in sterile 18M-cm H2O not less than 700µl, which can then be further diluted to other aqueous solutions.
Reconstitution	Performed by mixing equimolar amounts of cytokeratins of type I and type II at concentrations of approx. 0.5 mg/ml, both dissolved in 9.5M urea buffer (see above). Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4M urea and then to low salt condition (50mM NaCl, 2mM dithiothreitol, 10mM Tris-HCl, pH 7.4). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e.g. Dulbecco's PBS).
Preparation and Storage	Lyophilized CK-18 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution CK-18 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for KRT18 recombinant protein	Description: Cytokeratin 18 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain having a calculated molecular mass of 48,201 Dalton, showing a 45kDa band on SDS-page, pI-5.7. The KRT18 is purified by proprietary chromatographic techniques. Introduction: KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.
Product Categories/Family for KRT18 recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins ; Cytokeratin

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557888
NCBI GeneID	3875
NCBI Accession #	NP_000215.1
NCBI GenBank Nucleotide #	NM_000224.2
UniProt Accession #	P05783; Q53G38; Q5U0N8; Q9BW26
NCBI Official Full Name	keratin, type I cytoskeletal 18
NCBI Official Synonym Full Names	keratin 18, type I
NCBI Official Symbol	KRT18
NCBI Official Synonym Symbols	K18; CYK18
NCBI Protein Information	keratin, type I cytoskeletal 18; CK-18; cell proliferation-inducing gene 46 protein; cell proliferation-inducing protein 46; cytokeratin 18; cytokeratin-18
UniProt Protein Name	Keratin, type I cytoskeletal 18
UniProt Gene Name	KRT18
UniProt Synonym Gene Names	CYK18; CK-18; K18
UniProt Entry Name	K1C18_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/krt18-recombinant-protein/38447>