

KRT8

Recombinant Human Cytokeratin-8

Catalog No.	CRC006A CRC006B CRC006C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	CARD2, CK-8, CK8, CYK8, K2C8, K8, KO		
Description:	<p>Cytokeratin-8 is a member of the type II keratin family of proteins. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. KRT8 dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in the KRT8 gene cause cryptogenic cirrhosis.</p> <p>Recombinant Human Cytokeratin 8 is a single, non-glycosylated polypeptide chain.</p>		
GenelD:	3856		
Source:	<i>E. coli</i>		
Molecular Weight:	53.5 kDa		
Formulation:	Lyophilized from a sterile filtered solution containing 30 mM Tris-HCl, pH 8.0 + 9.5 M urea + 2 mM DTT + 2 mM EDTA + 10 mM methylammonium chloride		
Purity:	>95% as determined by RP-HPLC and SDS-PAGE analyses		
Reconstitution:	<p>Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.</p>		
Reconstitution to filaments:	<p>Performed by mixing equimolar amounts of cytokeratins of type I and type II at concentrations of approx. 0.5 mg/ml, both dissolved in 9.5 M urea buffer (see above). Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4 M urea and then to low salt condition (50 mM NaCl, 2 mM dithiothreitol, 10 mM Tris-HCl, pH 7.4). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e. g. Dulbecco's PBS).</p>		
Storage & Stability:	<p>Lyophilized product is stable at room temperature for up to 3 weeks. Upon receipt, store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for one week at 4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein such as 0.1% HSA or BSA as a stabilizer. This depends upon the particular application employed.</p> <p>Avoid repeated freeze-thaw cycles.</p>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

