

CK19

Recombinant Human Cytokeratin 19

Catalog No.	CRC177A CRC177B CRC177C	Quantity:	5 µg 20 µg 1 mg
Alternate Names:	CK19, Keratin type I cytoskeletal 19, Keratin-19, K19, KRT19, K1CS		
Description:	<p>Recombinant Human Cytokeratin 19 is a single, non-glycosylated polypeptide chain purified by proprietary chromatographic techniques.</p> <p>CTK-19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21.</p>		
Concentration:	1mg/ml		
Gene ID:	3880		
Source:	<i>E. coli</i>		
Molecular Weight:	44.1 kDa		
Formulation:	Lyophilized white powder from a sterile filtered solution containing 30 mM Tris-HCl Buffer, pH-8.0, + 9.5 M Urea + 2 mM DTT + 2 mM EDTA + 10 mM Methylammonium Chloride		
Purity:	>95% by RP-HPLC and SDS-PAGE		
Reconstitution:	Reconstitute in sterile distilled water to a concentration not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Reconstitution to filaments:	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 Formulation 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 (10 mM Tris-HCl, pH 7.4, + 50 mM NaCl + 2 mM dithiothreitol). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e.g. Dulbecco's PBS).		
Storage & Stability:	Store lyophilized product desiccated below -20°C. Reconstituted product is stable at 2-4°C for 1 week. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). For multiple use, aliquot and freeze at -80°C. Avoid repeated freeze-thaw cycles.		

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