

KRT14

Recombinant Human Cytokeratin 14

Catalog No.	CRC175A	Quantity:	5 µg
	CRC175B		20 µg
	CRC175C		1.0 mg

Alternate Names: Keratin 14, KRT14, CK14, EBS3, EBS4, K14, NFJ

Description: Cytokeratin 14 is a member of the keratin family, the most diverse group of intermediate filaments. Cytokeratin 14 is a type I keratin, is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Mutations in the genes for these keratins are associated with epidermolysis bullosa simplex.

Recombinant Human Cytokeratin 14 is a single, non-glycosylated polypeptide chain.

Gene ID: 3861

Source: *E. coli*

Molecular Weight: 51.53 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 SDS-PAGE and RP-HPLC analyses

Reconstitution: **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.

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 9.5M 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 (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).

Storage & Stability: 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. **Avoid repeated freeze-thaw cycles.**

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