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KRT14 Human

Cytokeratin 14 Human Recombinant
RCP1191

Product Overview

Name	KRT14 Human
Description	
Cytokeratin 14 Human Recombinant	
Accession (Primary)	P02533
Synonyms	
Keratin, type I cytoskeletal 14, Cytokeratin-14, CK-14, Keratin-14, K14, KRT14, NFJ, CK14, EBS3, EBS4.	
Introduction	
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. At least one pseudogene has been identified at 17p12-p11.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein (1mg/ml) was lyophilized after from a sterile solution containing 30mM Tris-HCl pH-8, 9.5M urea, 2mM DTT, 2mM EDTA and 10mM methylammonium chloride.	
Stability	
Lyophilized KRT14 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KRT14 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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Solubility	
It is recommended to reconstitute the lyophilized CK-14 in sterile 18MΩ-cm H2O 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 9.5M 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 NaCI, 2mM dithiothreitol, 10mM Tris-HCI, pH 7.4). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e.g. Dulbecco's PBS).

Precautions

KRT14 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P02533)