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## Product Data Sheet

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Product Name: KRT14 Human  
 Cat. No.: GP23769  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Keratin; type I cytoskeletal 14; Cytokeratin-14; CK-14; Keratin-14; K14; KRT14; NFJ; CK14; EBS3; EBS4.		
Solubility	It is recommended to reconstitute the lyophilized CK-14 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
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.		

### 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.

### 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.

### Background

Cytokeratin 14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 51,530 Dalton. The KRT14 is purified by

**Caution: Product has not been fully validated for medical applications. For research use only.**

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proprietary chromatographic techniques.

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