



## Product Datasheet

<b>Product Name</b>	Cytokeratin 18 Human Recombinant
<b>Cata No</b>	CB500970
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Keratin type I cytoskeletal 18, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18,CYK18,Cell proliferation-inducing gene 46 protein.

### Description

KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. Cytokeratin 18 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain having a calculated molecular mass of 48,201 Dalton, showing a 45kDa band on SDS-page, pI-5.7. The KRT18 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Purity

Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Formulation

The protein (1mg/ml) was lyophilized from a sterile solution containing 30mM Tris-HCL pH-8, 9.5M urea, 2mM EDTA, 2mM DTT and 10mM methylammonium chloride.

### Reconstitution

It is recommended to reconstitute the lyophilized CK-18 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized CK-18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CK-18 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.**

**\* For Non-Clinical Research Use Only \***