



Product Datasheet

Product Name	Cytokeratin 20 Human Recombinant
Cata No	CB500972
Source	<i>Escherichia Coli.</i>
Synonyms	Keratin type I cytoskeletal 20, Cytokeratin-20, CK-20, Keratin-20, K20, Protein IT, KRT20, CD20, CK20, KRT21, MGC35423.

Description

KRT20 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. This cytokeratin is a major cellular protein of mature enterocytes and goblet cells and is specifically expressed in the gastric and intestinal mucosa. The type I cytokeratin genes are clustered in a region of chromosome 17q12-q21.

Cytokeratin 20 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 48,553 Dalton. The CTK-20 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/1ml) was lyophilized after from a sterile solution containing 30mM Tris-HCL pH-8, 9.5M urea, 2mM DDT, 2mM EDTA and 10mM methylammonium chloride.

Reconstitution

It is recommended to reconstitute the lyophilized CK-20 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized CTK-20 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CTK-20 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.