



Product Datasheet

Product Name	Cytokeratin 19 Human Recombinant
Cata No	CB500971
Source	<i>Escherichia Coli.</i>
Synonyms	Keratin type I cytoskeletal 19, Cytokeratin-19, CK-19, Keratin-19, K19, KRT19, CK19, K1CS, MGC15366.

Description

CTK-19 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. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. Cytokeratin 19 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 44,098 Dalton. The CTK-19 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 after from a sterile solution containing 30mM Tris-HCL pH-8, 9.5M urea, 2mM EDTA and 10mM methylammonium chloride.

Reconstitution

It is recommended to reconstitute the lyophilized CTK-19 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized CTK-19 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CTK-19 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.