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TECHNICALLY Speaking

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Recombinant Human Cytokeratin 18 (CK 18, K18)

CLPRO349

CLPRO349-2

Lot:

Description: Recombinant human cytokeratin 18 produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 53,532 Dalton. Keratins are a class of fibrous proteins or scleroproteins important both as structural proteins and as keys to the study of protein conformation. The family represents the principal constituent of epidermis, hair, nails, horny tissues, and the organic matrix of tooth enamel. Two major conformational groups have been characterized, alpha-keratin (whose peptide backbone forms an alpha-helix) and beta-keratin (whose backbone forms a zigzag or pleated sheet structure).

Presentation: 5 µg (CLPRO349) or 20 µg (CLPRO349-2) was lyophilized from sterile solution (1 mg/ml) containing 30mM Tris-HCl pH-8, 9.5M Urea, 2mM EDTA and 10mM methylammonium chloride. Endotoxin is less than 0.1 ng/µg (IEU/µg).

Purity: Greater than 95.0% as determined by RP-HPLC, Anion exchange FPLC and reducing and non-reducing SDS-PAGE Silver Stained gel. Recombinant cytokeratin 18 was purified by proprietary chromatographic techniques.

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

Stability: Lyophilized Cytokeratin 18 (although stable at 4°C for 30 days) should be stored desiccated below -20°C. **Avoid freeze-thaw cycles.**

References:

1. Cell Microbiol. 2004. Oct; **6**(10): 987-97.
2. Cancer Lett. 2004. Oct 8; **214**(1): 1-9.
3. Shock. 2004. Sep; **22**(3): 218-20.
4. Clin. Cancer Res. 2004. Apr 15; **10**(8): 2670-4.
5. Ann Rheum. Dis. 2004. Apr; **63**(4): 420-5.
6. Cancer Res. 2004. Mar 1; **64**(5): 1751-6.

FOR RESEARCH USE ONLY

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