

Product datasheet for **BA1016**

Cytokeratin 19 Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Cytokeratin 19 human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Predicted MW:	44 kDa
Concentration:	lot specific
Purity:	>95% determined by SDS gelelectrophoresis
Buffer:	Presentation State: Purified State: Lyophilized purified protein
Reconstitution Method:	BA1016: Restore with 175 µl distilled water (final volume 250 µl). BA1016S: Restore with 70 µl distilled water (final volume 100 µl). Final Solution: 30mM Tris/HCl pH 8, 9.5M Urea, 2mM DTT, 2mM EDTA, 10mM Methylammonium Chloride.
Preparation:	Lyophilized purified protein
Applications:	Protein standard in 1D and 2D SDS gelelectrophoresis. Immunoassays. Immunization. Protocol: Reconstitution to filaments is performed by mixing equimolar amounts of keratins of type I and type II at concentrations of approx. 0.5 mg/ml, both dissolved in 9.5 M urea buffer (see above). Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4 M urea and then to low salt condition (50 mM NaCl, 2 mM dithiothreitol, 10 mM Tris-HCl, pH 7.4). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e.g. Dulbeccos PBS).
Protein Description:	Recombinant Human keratin K19 (formerly also designated Cytokeratin 19).
Note:	Isoelectric Point: pI 5.1



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Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_002267
Locus ID:	3880
UniProt ID:	P08727
Cytogenetics:	17q21.2
Synonyms:	CK19; K1CS; K19
Summary:	The protein encoded by this gene 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. [provided by RefSeq, Jul 2008]