# Product datasheet

## Keratin K20, human recombinant, 250 µg

### Short overview

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| **Cat. No.** | 62022 |
| **Quantity** | 250 µg |

### Product description

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| **Source** | Human recombinant, produced in E. coli |
| **Molecular Weight** | 46 kDa |
| **Isoelectric point** | pI 5.66 |
| **Purity** | > 95% (determined by SDS gelelectrophoresis) |
| **Reconstitution** | Reconstitute with 175 µl distilled water (final volume 250 µl). Final solution: 30 mM Tris/HCl pH 8, 9.5 M urea, 2 mM DTT, 2 mM EDTA, 10 mM methylammonium chloride; Protein concentration: 1 mg/ml |
| **Application** | Protein standard in 1D and 2D SDS gelelectrophoresis, immunoassays and immunization |
| **Synomym** | Cytokeratin 20 |
| **Storage** | Lyophilized at 2-8°C; reconstituted at -20°C (avoid freeze/thaw cycles) |
| **Intended use** | Research use only |

### Background

Protein standard for immunoblotting, immunization and immunoassays. 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. Dulbecco's PBS).- Hatzfeld M. and Franke W.W. (1985). J. Cell Biol. 101, 1826-1841- Hatzfeld M. et al. (1987). J. Mol. Biol. 197, 237-255

### Product images




Keratin K20, human recombinant, 250 µg

## References

| Publication | Species | Application |
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| Hofmann, I. & Franke, W. W. Heterotypic interactions and filament assembly of type I and type II cytokemtins In vitroâ€¯: viscometry and determlnatlons of relative affinities. 132, 122â€“132 (1997). | | |