



Recombinant Human Vimentin

Datasheet

Catalog Number: PR27081

Product Type: Recombinant Protein

Source: *E.Coli*

Description/Molecular Mass: Vimentin is the main intermediate filament protein in mesenchymal cells and is therefore of value in the differential diagnosis of undifferentiated neoplasms, having a molecular weight of 53,685 dalton (calculated from sequence), 57,000 dalton (determined by SDS gel electrophoresis).

Purity: Greater than 95.0% as determined by SDS-PAGE.

Format: The protein (1mg/ml) was lyophilized with 30mM Tris/HCL, pH 8, 9.5M urea, 2mM EDTA, 2mM DTT 10mM methylammonium chloride.

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

Reconstitution to Filaments: After vimentin is dissolved in 9.5M urea buffer (see above), protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4M urea and then to low salt condition (50mM NaCl, 2mM dithiothreitol, 10mM 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

Storage: Lyophilized rHuVim although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuVim 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 avoid freeze-thaw cycles.

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