

Product: **Recombinant Vimentin**
Catalog #: **03-62015 (250mg)**
 03-62215 (100mg)
Amount: **250 mg or**
 100 mg

SOURCE: **Recombinant, *E. coli* expression system**
MOLECULAR WEIGHT: 53,685 (calculated from sequence 57,000); 57,000
 (determined by SDS gelelectrophoresis)
ISOELECTRIC POINT: pHI 5.3
PURITY: Greater than 95% determined by SDS-PAGE
FORM: Lyophilized, salt balanced

APPLICATION: Protein standard in 1D and 2D SDS-gel electrophoresis
 Immunoassay
 Antigen for immunization.

RECONSTITUTION (250mg): When reconstituted with 175µl H₂O dist, a final solution
 volume of 250 µl will contain 30mM Tris/HCl, pH 9.8,
 9.5 M urea, 2mM DTT, 2 mM EDTA, 10 mM
 Methylammonium chloride with a protein concentration
 of 1mg/ml (according to protein dry weight)

RECONSTITUTION (100mg): When reconstituted with 70µl H₂O dist, a final solution
 volume of 100 µl will contain 30mM Tris/HCl, pH 9.8,
 9.5 M urea, 2mM DTT, 2 mM EDTA, 10 mM
 Methylammonium chloride with a protein concentration
 of 1mg/ml (according to protein dry weight).
STORAGE: 4°C (lyophilized), at -20°C (solution, aliquot)

Reconstitution to filaments: after vimentin is dissolved in 9.5 M urea buffer
(see above), protofilament 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 DTT, 10 mM Tris.HCl, pH7.4).
For Immunization purposes, the solution can be further dialyzed against PBS
(e.g. Dulbecco's PBS)

REFERENCES:
Hatzfeld, M & Franke WW (1985) J Cell Biol **101**: 1826-1841
Hatzfeld, M. et al. (1987) J Mol Biol **197**: 237-255

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