

DES

Recombinant Human Desmin

Catalog No.	CRD114A CRD114B CRD114C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Desmin, DES, CSM1, CSM2, CMD1I, FLJ12025, FLJ39719, FLJ41013, FLJ41793.		
Description:	Desmin is a muscle-specific class III intermediate filament. Homopolymers of this protein form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in this gene are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies.		
Gene ID:	1674		
Source:	<i>E. coli</i>		
Molecular Mass:	Recombinant Human Desmin has a calculated molecular mass of 53,539 Dalton and shows a 55 kDa band by SDS PAGE. The pI is 5.16.		
Formulation:	Desmin was lyophilized from a 1 mg/ml solution containing 30 mM Tris-HCl, 9.5 M urea, 2 mM DTT, 2 mM EDTA, 10 mM methylammonium chloride.		
Purity:	>95.0% as determined by SDS-PAGE.		
Physical Appearance:	Sterile filtered lyophilized, white powder.		
Reconstitution:	Centrifuge vial prior to opening. It is recommended to reconstitute the lyophilized Desmin in sterile 18 MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Reconstitution to Filaments:	After Desmin is dissolved in 9.5M urea buffer (see formulation), 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).		
Storage & Stability:	Lyophilized protein is stable at room temperature for 3 weeks, but it is recommended to store the lyophilized product desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for future use at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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