

Recombinant Human Desmin

Cat. No. DES-113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Desmin has a molecular mass of 53,539 dalton and is produced in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	This gene encodes 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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	The protein was lyophilized from a 1mg/ml solution containing 30 mM Tris/HCl pH 8, 9.5 M urea, 2 mM DTT, 2 mM EDTA and 10 mM methylammonium chloride.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Solubility	It is recommended to reconstitute the lyophilized rHuDesmin in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized rHuDesmin although stable at room temperature for 3 weeks, should be

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stored desiccated below -18°C. Upon reconstitution rHuDesmin 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 prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	DES desmin [Homo sapiens]
Synonyms	DES; desmin; CSM1; CSM2; CMD1I; FLJ12025; FLJ39719; FLJ41013; FLJ41793; intermediate filament protein; OTTHUMP0000 0064865
Gene ID	1674
mRNA Refseq	NM_001927
Protein Refseq	NP_001918
UniProt ID	P17661
Chromosome Location	2q35
MIM	125660
Pathway	Arrhythmogenic right ventricular cardiomyopathy (ARVC); Hypertrophic cardiomyopathy (HCM); Muscle contraction
Function	protein binding; structural constituent of cytoskeleton

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