OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR09361PU-N

Desmin Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Desmin human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Predicted MW:	53,539
Concentration:	1.0 mg/ml (after reconstitution)
Purity:	>95% determined by SDS gelelectrophoresis
Buffer:	Presentation State: Purified State: Lyophilised purified protein Buffer System: 30 mM Tris/HCl pH 8, 9.5 M urea, 2 mM DTT, 2 mM EDTA, 10 mM methylammonium chloride
Reconstitution Method:	Reconstitute with 175 µl distilled water (final volume 250 µl)
Preparation:	Lyophilised purified protein
Applications:	Protein standard in 1D and 2D SDS gelelectrophoresis. Immunoassays. Immunization. Protocol: Reconstitution to filaments: after desmin is 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 4M 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).
Protein Description:	Recombinant human desmin
Note:	Isoelectric Point pI 5.16 (calculated from sequence)
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001918

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Locus ID:	1674
UniProt ID:	P17661, Q53SB5
Cytogenetics:	2q35
Synonyms:	CDCD3; CSM1; CSM2; LGMD1D; LGMD1E; LGMD2R
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

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