# Recombinant Human SGCD, His-tagged

**Cat. No.** SGCD-7536H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human SGCD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 57-289aa |
| **Antigen Description** | SGCD is one of the four known components of the sarcoglycan complex, which is a subcomplex of the dystrophin-glycoprotein complex (DGC). DGC forms a link between the F-actin cytoskeleton and the extracellular matrix. This protein is expressed most abundantly in skeletal and cardiac muscle. The mutations in this gene have been associated with autosomal recessive limb-girdle muscular dystrophy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding distinct isoforms have been observed. In melanocytic cells SGCD gene expression may be regulated by MITF. |
| **Form** | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol |
| **Molecular Mass** | 28 kDa (257aa) |
| **AA Sequence** | MGSSHHHHHH SSGLVPRGSH RSHMKVMNFT IDGMGNLRIT EKGLKLEGDS EFLQPLYAKE IQSRPGNALY FKSARNVTVN ILNDQTKVLT QLITGPKAVE AYGKKFEVKT VSGKLLFSAD NNEVVVGAER LRVLGAEGTV FPKSIETPNV |

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| | RADPFKELRL ESPTRSLVME APKGVEINAE AGNMEATCRT ELRLESKDGE IKLDAAKIRL PRLPHGSYTP TGTRQKVFEI CVCANGRLFL SQAGAGSTCQ INTSVCL |
| **Purity** | >85% as determined by SDS - PAGE |
| **Applications** | SDS-PAGE |
| **Storage** | Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.Avoid repeated freezing and thawing cycles. |
| **Concentration** | 1 mg/ml |

## GENE INFORMATION

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| **Gene Name** | SGCD sarcoglycan, delta (35kDa dystrophin-associated glycoprotein) [ Homo sapiens ] |
| **Official Symbol** | SGCD |
| **Synonyms** | SGCD; sarcoglycan, delta (35kDa dystrophin-associated glycoprotein); sarcoglycan, delta (35kD dystrophin associated glycoprotein); delta-sarcoglycan; CMD1L; DAGD; LGMD2F; delta-SG; placental delta sarcoglycan; 35 kDa dystrophin-associated glycoprotein; dystrophin associated glycoprotein, delta sarcoglycan; SGD; 35DAG; SGCDP; SG-delta; MGC22567; |
| **Gene ID** | 6444 |
| **mRNA Refseq** | NM_000337 |
| **Protein Refseq** | NP_000328 |

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| **MIM** | 601411 |
| **UniProt ID** | Q92629 |
| **Chromosome Location** | 5q33-q34 |
| **Pathway** | Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Viral myocarditis, organism-specific biosystem; |

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