

Recombinant Human DSP, GST-tagged

Cat. No. DSP-12182H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DSP protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-350a.a.
Description	Desmosomes are intercellular junctions that tightly link adjacent cells. Desmoplakin is an obligate component of functional desmosomes that anchors intermediate filaments to desmosomal plaques. The N-terminus of desmoplakin is required for localization to the desmosome and interacts with the N-terminal region of plakophilin 1 and plakoglobin. The C-terminus of desmoplakin binds with intermediate filaments. In the mid-region of desmoplakin, a coiled-coiled rod domain is responsible for homodimerization. Mutations in this gene are the cause of several cardiomyopathies and keratodermas as well as the autoimmune disease paraneoplastic pemphigus.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	DSP desmoplakin [Homo sapiens]
Official Symbol	DSP
Synonyms	DSP; desmoplakin; desmoplakin (DPI, DPII); DPI; DPII; KPPS2; PPKS2; desmoplakin I; desmoplakin II; 250/210 kDa paraneoplastic pemphigus antigen; DP;
Gene ID	1832
mRNA Refseq	NM_001008844
Protein Refseq	NP_001008844
MIM	125647
UniProt ID	P15924
Chromosome Location	6pter-p21
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cell adhesionproteins, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem;
Function	protein binding; protein binding, bridging; structural constituent of cytoskeleton; structural molecule activity;

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