Desmoplakin Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Desmoplakin (DSP), Blocking Peptide
Full Product Name	Desmoplakin Blocking Peptide
Product Gene Name	DSP blocking peptide
Product Synonym Names	250/210kDa paraneoplastic pemphigus antigen; Desmoplakin I; Desmoplakin II; DP I; DP II; DPI; DPII; DSP; KPPS2; PPKS2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Desmoplakin peptide (MBS9616699) is used for blocking the activity of Desmoplakin antibody (MBS9613417)
Molecular Weight	331,774 Da
OMIM	125647
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DSP blocking peptide	Blocking/Control
Related Product Information for DSP blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of DSP blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DSP purchase	MBS9616699 is a blocking peptide targeting DSP. Also known as Desmoplakin Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSP. It may not necessarily be applicable to this product.

NCBI GI #	58530842
NCBI GeneID	1832
NCBI Accession #	NP_001008844.1
UniProt Primary Accession #	P15924
UniProt Secondary Accession #	O75993; Q14189; Q9UHN4; B2RTT2; D7RX09
UniProt Related Accession #	P15924

GenBank Nucleotide #	NM_001008844.1
NCBI Official Full Name	desmoplakin isoform II
NCBI Official Synonym Full Names	desmoplakin
NCBI Official Symbol	DSP
NCBI Official Synonym Symbols	DP; DPI; DPII
UniProt Protein Name	Desmoplakin
UniProt Synonym Protein Names	250/210 kDa paraneoplastic pemphigus antigen
Protein Family	Desmoplakin
UniProt Gene Name	DSP
UniProt Synonym Gene Names	DP
UniProt Entry Name	DESP_HUMAN
NCBI Protein Information	desmoplakin; desmoplakin I; desmoplakin II; 250/210 kDa paraneoplastic pemphigus antigen
NCBI Summary for DSP	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. [provided by RefSeq, Jul 2008]
UniProt Comments for DSP	Desmoplakin: Major high molecular weight protein of desmosomes. Involved in the organization of the desmosomal cadherin- plakoglobin complexes into discrete plasma membrane domains and in the anchoring of intermediate filaments to the desmosomes. Homodimer. Interacts with COL17A1 (via cytoplasmic region). Associates (via C-terminal) with KRT5-KRT14 (via rod region), KRT8-KRT18 and VIM intermediate filaments. Interacts with DSC2. Isoform DPI is apparently an obligate constituent of all desmosomes. Isoform DPII resides predominantly in tissues and cells of stratified origin. Belongs to the plakin or cytolinker family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cytoskeletal; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 6p24 Cellular Component: desmosome; mitochondrion; basolateral plasma membrane; plasma membrane; cornified envelope; intermediate filament; fascia adherens; nucleus Molecular Function: protein binding, bridging; protein binding; protein kinase C binding; structural constituent of cytoskeleton; cell adhesion molecule binding; structural molecule activity Biological Process: keratinocyte differentiation; epidermis development; cell-cell adhesion; wound healing; apoptosis; intermediate filament organization; peptide cross-linking; cell structure disassembly during apoptosis Disease: Cardiomyopathy, Dilated, With Woolly Hair And Keratoderma; Arrhythmogenic Right Ventricular Dysplasia, Familial, 8; Keratosis Palmoplantaris Striata Ii; Cardiomyopathy, Dilated, With Woolly Hair, Keratoderma, And Tooth Agenesis; Skin Fragility-woolly Hair Syndrome; Epidermolysis Bullosa, Lethal Acantholytic
Research Articles on DSP	**1.** Arrhythmogenic right ventricular cardiomyopathy patients of a three-generation Spanish family with a novel nonsense genetic variation in the DSP gene.
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