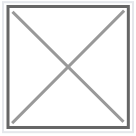
DSG1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DSG1, Recombinant Protein
Full Product Name	Recombinant Human DSG1, C-His
Product Gene Name	DSG1 recombinant protein
Product Synonym Names	DGI; Cadherin family member 4; Desmoglein-1; DG1; Pemphigus foliaceus antigen; CDHF4; DSG1; Desmosomal glycoprotein 1
Host	Insect
Form/Format	Lyophilized from a solution in PBS pH7.4, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	113,748 Da
Sequence Positions	Glu50-Pro548
Chromosome Location	Chromosome: 18; NC_000018.9 (28898052..28937394). Location: 18q12.1
OMIM	125670
3D Structure	ModBase 3D Structure for Q02413
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for DSG1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DSG1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for DSG1 recombinant protein	MBS1576044 is a recombinant protein targeting DSG1. Also known as Recombinant Human DSG1, C-His. Host: Insect.
Other Notes	Small volumes of DSG1 recombinant protein 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.



SDS-Page of DSG1 recombinant protein
SDS PAGE for recombinant Human DSG1

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSG1. It may not necessarily be applicable to this product.

NCBI GI #	119703744
NCBI GeneID	1828
NCBI Accession #	NP_001933.2
UniProt Primary Accession #	Q02413
UniProt Related Accession #	Q02413
GenBank Nucleotide #	NM_001942.2
NCBI Official Full Name	desmoglein-1 preproprotein
NCBI Official Synonym Full Names	desmoglein 1
NCBI Official Symbol	DSG1
NCBI Official Synonym Symbols	DG1; DSG; CDHF4; PPKS1; SPPK1
UniProt Protein Name	Desmoglein-1
UniProt Synonym Protein Names	Cadherin family member 4; Desmosomal glycoprotein 1; DG1; DGI; Pemphigus foliaceus antigen
Protein Family	Desmoglein
UniProt Gene Name	DSG1
UniProt Synonym Gene Names	CDHF4; DG1; DGI
UniProt Entry Name	DSG1_HUMAN
NCBI Protein Information	desmoglein-1; DGI; cadherin family member 4; desmosomal glycoprotein 1; pemphigus foliaceus antigen
NCBI Summary for DSG1	Desmosomes are cell-cell junctions between epithelial, myocardial and certain other cell types. Desmoglein 1 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Currently, three desmoglein subfamily members have been identified and all are members of the cadherin cell adhesion molecule superfamily. These desmoglein gene family members are located in a cluster on chromosome 18. The protein encoded by this gene has been identified as the autoantigen of the autoimmune skin blistering disease pemphigus foliaceus. [provided by RefSeq, Jul 2008]
UniProt Comments for DSG1	DSG1: Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. Defects in DSG1 are the cause of palmoplantar keratoderma striate type 1 (SPPK1); also known as keratosis palmoplantaris striata I. SPPK1 is a dermatoligical disorder characterized by thickening of the skin on the palms and soles, and longitudinal hyperkeratotic lesions on the palms, running the length of each finger. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 18q12.1 Cellular Component: desmosome; internal side of plasma membrane; apical plasma membrane; integral to membrane; plasma membrane; intercellular junction; cytosol; lateral plasma membrane Molecular Function: toxin binding; gamma-catenin binding; calcium ion binding Biological Process: intercellular junction assembly; cell-cell adhesion; maternal process involved in pregnancy; protein stabilization; apoptosis; calcium-dependent cell-cell adhesion; response to progesterone stimulus; homophilic cell adhesion; cell structure disassembly during apoptosis Disease: Palmoplantar Keratoderma I, Striate, Focal, Or Diffuse; Erythroderma, Congenital, With Palmoplantar Keratoderma, Hypotrichosis, And Hyper-ige
Research Articles on DSG1	**1.** DSG1 and Erbin cooperate to repress MAPK signaling and promote keratinocyte differentiation.

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