

Recombinant Human Desmoglein 2

Cat. No. DSG2-1601H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	Mammalian Cells
Description	Desmoglein 2, also known as DSG2, is a human gene. Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Desmoglein 2 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. It provides cellular adhesion and forces transduction by cell-to-cell anchorage. It also plays a role in embryonic stem cell proliferation.
Molecular Weight	The predicted molecular weight of Recombinant Human Desmoglein-2 is Mr 89 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 115 kDa.
Amino Acid Sequence	Human Desmoglein2 (Ala49 Gly608) - IEGRMD - Human IgG1 (Pro100 Lys330).
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2-7.3 with no calcium, magnesium, or preservatives.

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Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human DSG2 was determined by the ability of the immobilized protein to support the adhesion of BUD8 human skin fibroblast cells. When 3 x 10 ⁴ cells are added to recombinant human Desmoglein 2 coated plates (10 µg/ml, 100 µl/well), approximately 50%-80% will adhere after 1 hour at 37°C.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	DSG2 desmoglein 2 [Homo sapiens]
Synonyms	DSG2; desmoglein 2; HDGC; CDHF5; ARVC10; ARVD10; CMD1BB; MGC117034; MGC117036; MGC117037; Desmoglein-2
Gene ID	1829
mRNA Refseq	NM_001943
Protein Refseq	NP_001934
MIM	125671
UniProt ID	Q14126
Chromosome	18q12.1

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Location

Pathway

Arrhythmogenic right ventricular cardiomyopathy (ARVC)

Function

calcium ion binding; protein binding

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