

Active Recombinant Human DSG1 Protein, Fc tagged

Cat. No. DSG1-1601H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human DSG1 Protein (Glu50-His545) with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
Species	Human
Source	Mouse myeloma cell line
ProteinLength	50-545 aa
Description	This gene encodes a member of the desmoglein protein subfamily. Desmogleins, along with desmocollins, are cadherin-like transmembrane glycoproteins that are major components of the desmosome. Desmosomes are cell-cell junctions that help resist shearing forces and are found in high concentrations in cells subject to mechanical stress. This gene is found in a cluster with other desmoglein family members on chromosome 18. The encoded protein has been identified as a target of auto-antibodies in the autoimmune skin blistering disease pemphigus foliaceus. Disruption of this gene has also been associated with the skin diseases palmoplantar keratoderma and erythroderma.
Form	Disulfide-linked homodimer, Lyophilized from a 0.2 µm filtered solution in Tris, NaCl and Citrate.
Molecular Mass	82 kDa (monomer)
Endotoxin	< 1.0 EU/µg of the protein by the LAL method.

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Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Reference	1. Nollet, R. et al. (2000) J. Mol. Biol. 299:551. 2. Elias, P. et al. (2001) J. Cell Biol. 153:243.
N-terminal Sequence Analysis	Glu50

GENE INFORMATION

Gene Name	DSG1 desmoglein 1 [Homo sapiens (human)]
Official Symbol	DSG1
Synonyms	DSG1; desmoglein 1; DG1; DSG; CDHF4; EPKHE; PPKS1; SPPK1; EPKHIA; desmoglein-1; cadherin family member 4; desmosomal glycoprotein 1; pemphigus foliaceus antigen
Gene ID	1828

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mRNA Refseq	NM_001942
Protein Refseq	NP_001933
MIM	125670
UniProt ID	Q02413

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