Recombinant Human DSG1 protein, His & GST-tagged

Cat. No. DSG1-820H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DSG1 aa. (Glu710~Val961) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu710~Val961
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	Freeze-dried powder
Molecular Mass	56kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

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Purity	>92%
Characteristic	The isoelectric point is 5.5.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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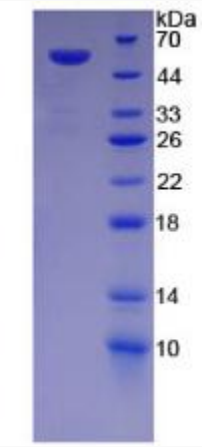
Gene ID	1828
mRNA Refseq	NM_001942.3
Protein Refseq	NP_001933.2
UniProt ID	Q02413
SDS-PAGE	

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