

## Recombinant Human DSG1 protein, His & GST-tagged

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

### SPECIFICATION

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

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<b>Purity</b>	>92%
<b>Characteristic</b>	The isoelectric point is 5.5.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Concentration</b>	200µg/mL
<b>Storage buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

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

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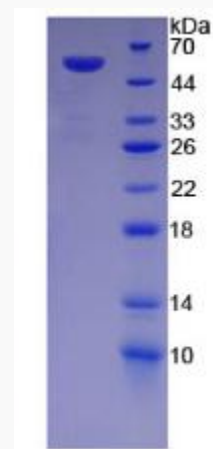
**Gene ID** 1828

**mRNA Refseq** NM\_001942.3

**Protein Refseq** NP\_001933.2

**UniProt ID** Q02413

**SDS-PAGE**



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