

For Research Use Only

# Recombinant Human DSG3 protein (rFc Tag)



Catalog Number: Eg2948

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/μg protein, LAL method

**Source:**

HEK293-derived Human DSG3 protein Glu50-Arg615 (Accession# P32926) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

1830

**Accession:**

P32926

**Predicted Molecular Mass:**

89.0 kDa

**SDS-PAGE:**

80-110 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

DSG3 (Desmoglein 3) is a member of the calcineurin superfamily. DSG3 is a calcium-binding transmembrane glycoprotein preferentially found in bridge grains of squamous epithelial keratinocytes. Both deletion and up-regulation of DSG3 have been associated with cancer progression. DSG3 is primarily involved in the formation of intercellular junctions, particularly cell-cell junctions, between epithelial, cardiomyocyte and other cell types. DSG3 is also involved in cell signaling pathways that control proliferation, differentiation and migration of keratinocytes. (PMID: 36375372) DSG3 is clinically associated with autoimmune blistering skin diseases.

## References

1. Viehweger F, et al. Pathol Res Pract. 2022;240:154200.
2. Schmitt T, et al. Front Immunol. 2022;13:884241.
3. Schmitt T, et al. Front Immunol. 2023;14:1163066.

## Synonyms

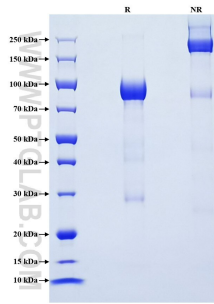
DSG3, Cadherin family member 6, CDHF6, Desmoglein 3, Desmoglein-3

For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Human DSG3 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.