

# Human DSG-2/Desmoglein-2 Protein

Cat. No. DSG-HM102

## Description

<b>Source</b>	Recombinant Human DSG-2/Desmoglein-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala50-Gly609.
<b>Accession</b>	Q14126
<b>Molecular Weight</b>	The protein has a predicted MW of 63.6 kDa. Due to glycosylation, the protein migrates to 75-80 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

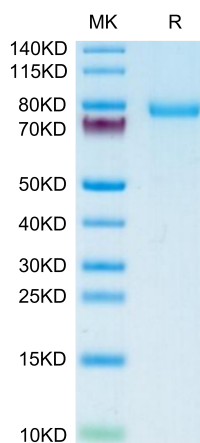
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Desmoglein-2 (DSG-2) as the primary high-affinity receptor used by adenoviruses Ad3, Ad7, Ad11 and Ad14. These serotypes represent key human pathogens causing respiratory and urinary tract infections. In epithelial cells, adenovirus binding of DSG-2 triggers events reminiscent of epithelial-to-mesenchymal transition, leading to transient opening of intercellular junctions.

## Assay Data

### Bis-Tris PAGE

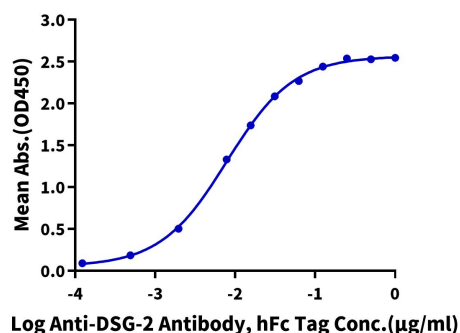


Human DSG-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human DSG-2, His Tag ELISA

0.1µg Human DSG-2, His Tag Per Well



Immobilized Human DSG-2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-DSG-2 Antibody, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA (QC Test).