

Human DSG-2/Desmoglein-2 Protein

Cat. No. DSG-HM102

Description

Source	Recombinant Human DSG-2/Desmoglein-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala50-Gly609.
Accession	Q14126
Molecular Weight	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.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

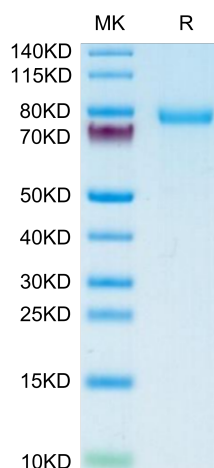
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

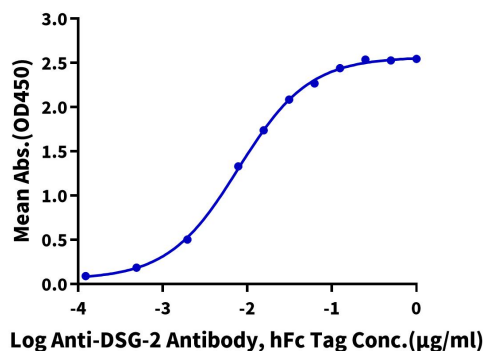


Human DSG-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human DSG-2, His Tag ELISA

0.1 μg Human DSG-2, His Tag Per Well



Immobilized Human DSG-2, His Tag at 1 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) 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).