

Human DSG3 Protein

Cat. No. DSG-HM103

Description

Source	Recombinant Human DSG3 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu50-Arg615.
Accession	P32926
Molecular Weight	The protein has a predicted MW of 64 kDa. Due to glycosylation, the protein migrates to 70-75 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

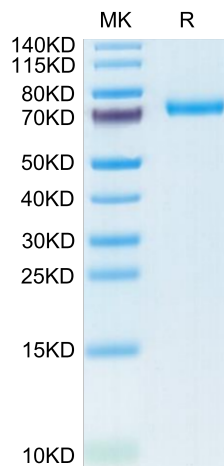
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

To identify genes that could potentially serve as molecular therapeutic markers for human head and neck cancer (HNC), DSG3 is identified overexpressed in HNC, with the degree of overexpression associated with clinicopathologic features of the tumor. Inhibition of DSG3 significantly suppresses carcinogenic potential in cellular and in vivo animal studies. DSG3 is a potential molecular target in the development of adjuvant therapy for HNC.

Assay Data

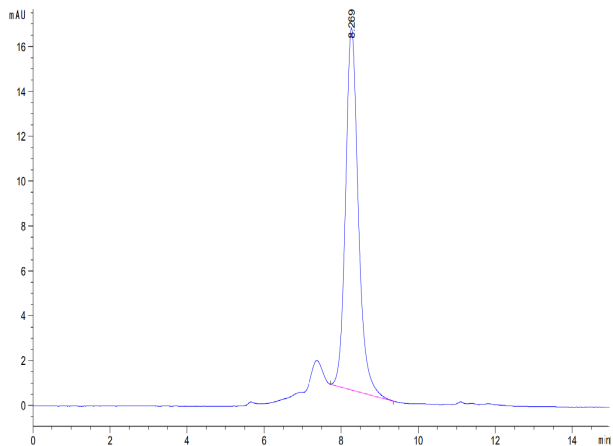
Tris-Bis PAGE



Human DSG3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



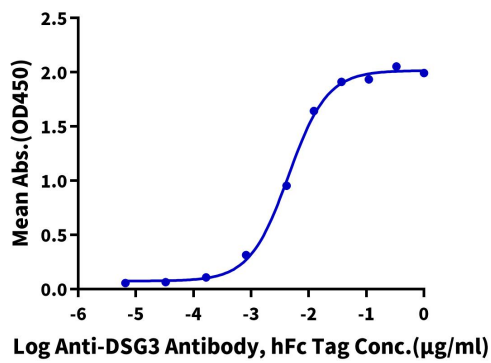
The purity of Human DSG3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human DSG3, His Tag ELISA

0.05µg Human DSG3, His Tag Per Well



Immobilized Human DSG3, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-DSG3 Antibody, hFc Tag with the EC50 4.5ng/ml determined by ELISA.