

Human DSG-3 Protein, His Tag (MALS verified)

Catalog # DS3-H52H3



BIOSYSTEMS
Acro

Synonym

DSG-3

Source

Human DSG-3 Protein, His Tag (DS3-H52H3) is expressed from human 293 cells (HEK293). It contains AA Glu 50 - Arg 615 (Accession # [P32926](#)).

Predicted N-terminus: Glu 50

Molecular Characterization

DSG-3(Glu 50 - Arg 615)
P32926

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 64.8 kDa. The protein migrates as 70-85 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.05 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

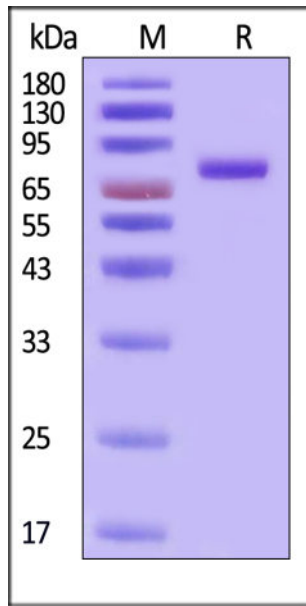
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

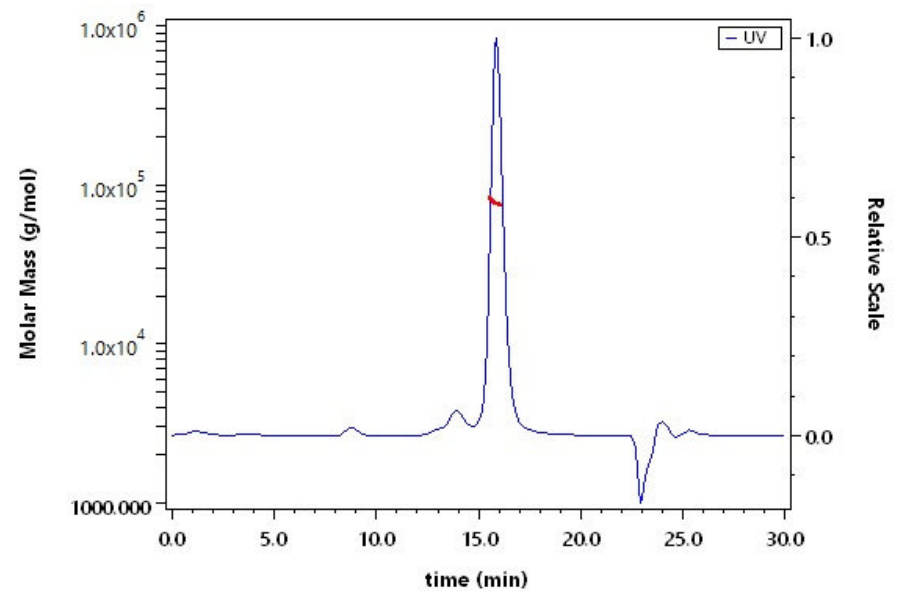
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



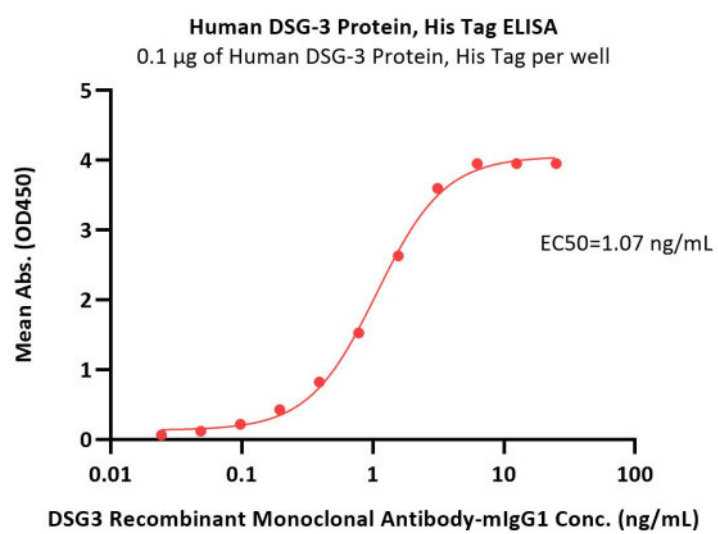
Human DSG-3 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



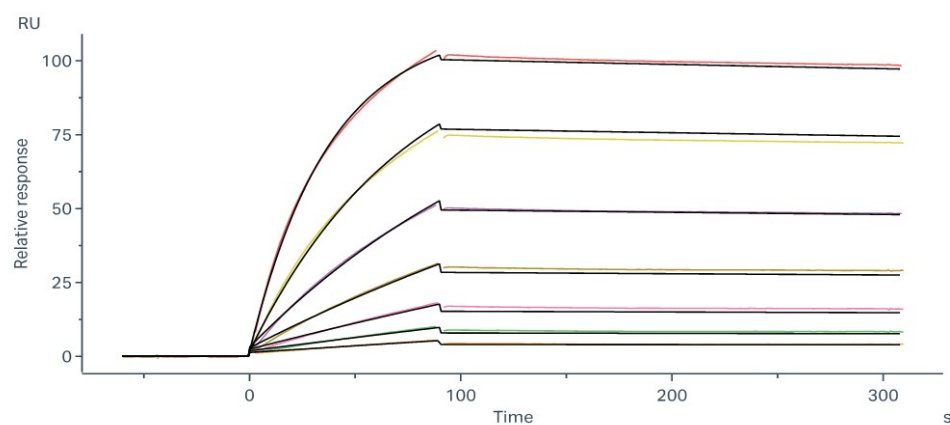
The purity of Human DSG-3 Protein, His Tag (Cat. No. DS3-H52H3) is more than 90% and the molecular weight of this protein is around 65-85 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human DSG-3 Protein, His Tag (Cat. No. DS3-H52H3) at 1 µg/mL (100 µL/well) can bind DSG3 Recombinant Monoclonal Antibody-mIgG1 with a linear range of 0.02-2 ng/mL (QC tested).

Bioactivity-SPR



DSG3 Recombinant Monoclonal Antibody-mIgG1 captured on CM5 chip via anti-mouse antibodies surface can bind Human DSG-3 Protein, His Tag (Cat. No. DS3-H52H3) with an affinity constant of 1.12 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

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.

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