

Recombinant Human DSG2 protein (rFc Tag)

Catalog Number: Eg6509

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 DSG2 protein Ala50-Gly609 (Accession# Q14126) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

1829

Accession:

Q14126

Predicted Molecular Mass:

88.1 kDa

SDS-PAGE:

90-120 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

Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Desmosomal cadherins, consisting of four desmogleins (DSG1-4) and three desmocollins (DSC1-3) in humans, mediate adhesion through calcium-dependent homophilic/heterophilic interactions. DSG2 is a single-pass transmembrane glycoprotein that is widely expressed in epithelial and non-epithelial tissues, such as the intestine, epidermis, testis, and heart. Defects in DSG2 are the cause of familial arrhythmogenic right ventricular dysplasia type 10 (ARVD10), and genetic variations in DSG2 are the cause of susceptibility to cardiomyopathy dilated type 1BB (CMD1BB).

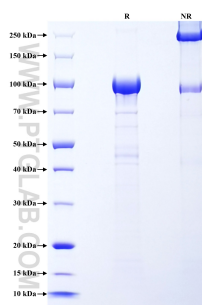
References

- 1.Kolegraff, Keli et al. Cell Adh Migr. 2011;5(4):306-314.
- 2.Awad, Mark M et al. American journal of human genetics vol. 79,1 (2006): 136-42.
- 3.Yeruva, Sunil, and Jens Waschke. Journal of anatomy vol. 242,1 (2023): 81-90.

Synonyms

ARVC10, ARVD10, Cadherin family member 5, CDHF5, Desmoglein 2

Selected Validation Data



Purity of Recombinant Human DSG2 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.

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

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