

Bioactive

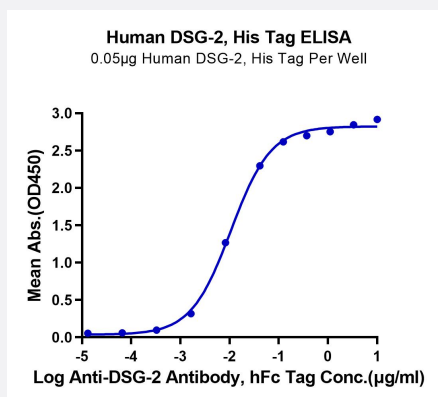
HuPro®

# DSG2 (Human) Recombinant Protein

Catalog # P9811

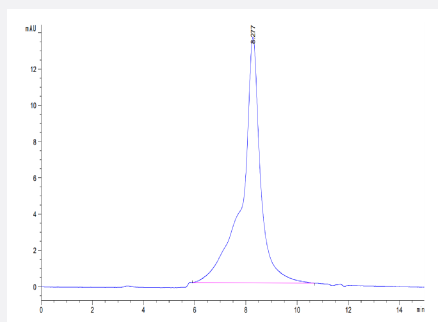
Size 100 ug

## Applications



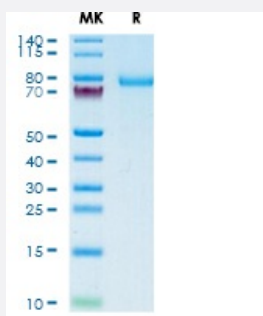
## Enzyme-linked Immunoabsorbent Assay

Immobilized Human DSG-2, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-DSG-2 Antibody, hFc Tag with the EC<sub>50</sub> of 10.7 ng/mL determined by ELISA.



## SEC-HPLC

The purity of Human DSG-2 is greater than 95% as determined by SEC-HPLC.



## Tris-Bis PAGE

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

## Specification

Product Description	Human DSG2 (Q14126, Ala50-Gly609) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.
Sequence	Ala50-Gly609
Host	Human
Theoretical MW (kDa)	63.6
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC <sub>50</sub> was 10.7 ng/mL, measured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human DSG-2 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human DSG-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

## Applications

- Enzyme-linked Immunoabsorbent Assay

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- Functional Study

- SDS-PAGE

## Gene Info — DSG2

Entrez GeneID	<a href="#">1829</a>
Protein Accession#	<a href="#">Q14126</a>
Gene Name	DSG2
Gene Alias	ARVC10, ARVD10, CDHF5, HDGC, MGC117034, MGC117036, MGC117037
Gene Description	desmoglein 2
Omim ID	<a href="#">125671</a> <a href="#">610193</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. This gene product is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Currently, three desmoglein subfamily members have been identified and all are members of the cadherin cell adhesion molecule superfamily. These desmoglein gene family members are located in a cluster on chromosome 18. This second family member is expressed in colon, colon carcinoma, and other simple and stratified epithelial-derived cell lines. Mutations in this gene have been associated with arrhythmogenic right ventricular dysplasia, familial, 10 . [provided by RefSeq]
Other Designations	HDGC

## Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)

## Disease

- [Arrhythmias](#)
- [Arrhythmogenic Right Ventricular Dysplasia](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)

- [Tachycardia](#)