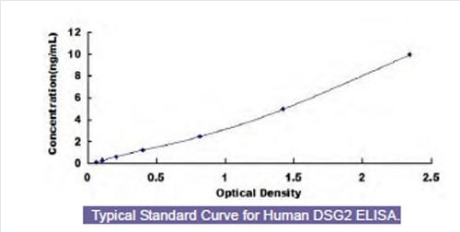
Desmoglein 2 (DSG2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Desmoglein 2 (DSG2), ELISA Kit
Full Product Name	Human Desmoglein 2 (DSG2) ELISA Kit
Product Gene Name	DSG2 elisa kit
Product Synonym Names	ARVC10; ARVD10; CDHF5; HDGC; Cadherin family member 5
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of DSG2. No significant cross-reactivity or interference between DSG2 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DSG2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DSG2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	122,294 Da
OMIM	Z26317 mRNA
3D Structure	ModBase 3D Structure for Q14126
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DSG2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DSG2 in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DSG2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DSG2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DSG2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of DSG2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DSG2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for DSG2 purchase	MBS453097 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Desmoglein 2 (DSG2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DSG2. The ELISA analytical biochemical technique of the MBS453097 kit is based on DSG2 antibody-DSG2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DSG2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DSG2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of DSG2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSG2. It may not necessarily be applicable to this product.

NCBI GI #	116534898
NCBI GeneID	1829
NCBI Accession #	NP_001934.2
UniProt Primary Accession #	Q14126
UniProt Secondary Accession #	Q4KKU6
UniProt Related Accession #	Q14126
GenBank Nucleotide #	NM_001943.4
NCBI Official Full Name	desmoglein-2 preproprotein
NCBI Official Synonym Full Names	desmoglein 2
NCBI Official Symbol	DSG2
NCBI Official Synonym Symbols	HDGC; CDHF5
UniProt Protein Name	Desmoglein-2
UniProt Synonym Protein Names	Cadherin family member 5; HDGC
Protein Family	Desmoglein
UniProt Gene Name	DSG2
UniProt Synonym Gene Names	CDHF5
NCBI Protein Information	desmoglein-2
NCBI Summary for DSG2	This gene encodes a member of the desmoglein family and cadherin cell adhesion molecule superfamily of proteins. Desmogleins are calcium-binding transmembrane glycoprotein components of desmosomes, cell-cell junctions between epithelial, myocardial, and other cell types. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This gene is present in a gene cluster with other desmoglein gene family members on chromosome 18. Mutations in this gene have been associated with arrhythmogenic right ventricular dysplasia, familial, 10. [provided by RefSeq, Jan 2016]
UniProt Comments for DSG2	Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion.

Research Articles on DSG2	**1.** a novel pathway of CSTA regulation involving Dsg2
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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