

Desmocollin 2/DSC2 Recombinant Protein | DSC2 recombinant protein

Recombinant Human Desmocollin 2/DSC2 Protein (His Tag), HPLC-verified

CATALOG #
AAA259178

HOST
HEK293 Cells

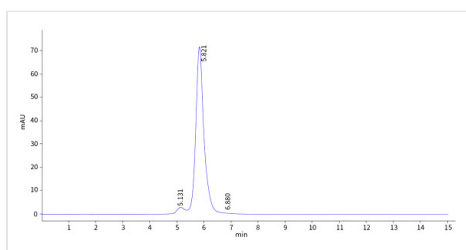
PRODUCT SYNONYMS

Desmocollin 2/DSC2; Recombinant Human Desmocollin 2/DSC2 Protein (His Tag); HPLC-verified; desmocollin 2; ARVD11 Protein; Human; CDHF2 Protein; DG2 Protein; DGII/III Protein; DSC3 Protein; DSC2 recombinant protein

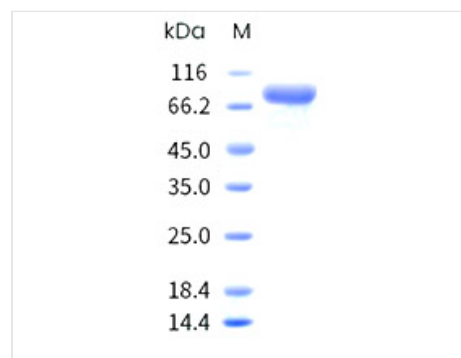
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Human
Predicted N Terminal	Arg 136
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human DSC2 (Q02487-1)(Arg136-Arg684) was expressed with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for DSC2 recombinant protein	DSC2 is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. Like other desmocollins, murine DSC2 has two products, Dsc2a and Dsc2b, produced by alternative splicing of a 46 bp exon which encodes 11 COOH-terminal aa followed by an in-frame stop codon. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome cell-cell junction and are required for cell adhesion and desmosome formation. The desmosomal family members are arranged in two clusters on chromosome 18, occupying less than 650 kb combined. Mutations in DSC2 are associated with arrhythmogenic right ventricular dysplasia-11. DSC2 is Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. DSC2 may contribute to epidermal cell positioning by mediating differential adhesiveness between cells that express different isoforms.
References	Nuber UA, et al. (1995) The widespread human desmocollin Dsc2 and tissue-specific patterns of synthesis of various desmocollin subtypes. Eur J Cell Biol. 66 (1): 69-74. Marsden MD, et al. (1997) Cloning and transcriptional analysis of the promoter of the human type 2 desmocollin gene (DSC2). Gene. 186 (2): 237-47. Greenwood MD, et al. (1997) Exon-intron organization of the human type 2 desmocollin gene (DSC2): desmocollin gene structure is closer to "classical" cadherins than to desmogleins. Genomics. 44 (3): 330-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38648769
NCBI GeneID	1824
UniProt Accession #	Q02487
Molecular Weight	93,769 Da
NCBI Official Full Name	Desmocollin 2
NCBI Official Synonym Full Names	desmocollin 2
NCBI Official Symbol	DSC2
NCBI Official Synonym Symbols	DG2; DSC3; CDHF2; ARVD11; DGII/III
NCBI Protein Information	desmocollin-2
UniProt Protein Name	Desmocollin-2
UniProt Gene Name	DSC2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.