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

Catalog No. PKSH031417

Note: Centrifuge before opening to ensure complete recovery of vial contents.

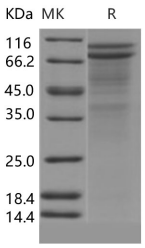
Description

Synonyms	ARVD11;CDHF2;DG2;DGII/III;DSC3
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Arg 684
Accession	Q02487-1
Calculated Molecular Weight	75.0 kDa
Observed molecular weight	85&100 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 75 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 75 % as determined by reducing SDS-PAGE.

Background

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

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
Web: www.elabscience.com Email: techsupport@elabscience.com

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.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
Web: www.elabscience.com Email: techsupport@elabscience.com