

Recombinant Rat SDC2 Protein, Fc-tagged

Cat. No. SDC2-529R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat SDC2 (Q3T1K6) (Met1-Pro694) was expressed with the Fc region of human IgG1 at the C-terminus
Species	Rat
Source	HEK293
ProteinLength	Met1-Pro694
Description	DSC2 is a calcium-dependent glycoprotein that is a member of the desm centigradeollin subfamily of the cadherin superfamily. Like other desm centigradeollins, 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, centigradeoccupying less than 650 kb combined. Mutations in DSC2 are ass centigradeiated 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.

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Predicted N Terminal	Cys 29
Form	Lyophilized from a 0.2µm filtered solution of PBS, pH7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat SDC2 comprises 907 amino acids and has a predicted molecular mass of 101.6 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Sdc2 syndecan 2 [Rattus norvegicus]
Official Symbol	SDC2
Synonyms	SDC2; syndecan 2; syndecan-2; SYND2; fibroglycan; Ryudocan/syndecan 2; heparan sulfate proteoglycan core protein; HSPG;
Gene ID	25615

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mRNA Refseq	NM_013082
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Protein Refseq	NP_037214
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