

## DSC2/Desmocollin-2 Protein, Rat (HEK293, His)

<b>Cat. No.:</b>	HY-P76303
<b>Synonyms:</b>	Cadherin family member 2; CDHF2; DSC3; Desmosomal glycoprotein II
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	Q3T1K6 (C29-P694)
<b>Gene ID:</b>	291760
<b>Molecular Weight:</b>	Approximately 80-95 kDa due to the glycosylation

### PROPERTIES

#### AA Sequence

CDACKEVVLQ	VPSELPAGKF	VGRVNLMECL	KSANVIHLSD
PDFQVFEDGS	VYTTNSVVL S	SGQRSFTIWL	FNTDSQEERE
LSVHLEGPVE	VLNQRLHTEK	VLRRAKRRWA	PIPCSMENS
LGPFLFLQQ	IQSDKAQNYT	IYYSISGPGV	DKEPVGLFRI
DRDTGNLYCT	DRVDREQYDS	FELTALAMTP	DGYMVENLLT
LLIKVEDEND	NYPIFTQKVY	SFTVLENSPF	GSHVGEVCAT
DKDEPD TMHT	RLKYSILEQS	PSPPM LFTMH	PRTGVIT TTS
TQLDRELIDK	YQLIIKVQDM	DGQYFGLQTT	ATCVITIGDV
NDNLPTFTRT	TYVTSVEENT	VNVELLRLSV	QDKDLVNSPN
WRANYTILKG	NENGNFKIKT	DPQTNEGILC	VIMPLDYEER
QRVTLEIGVV	NEAPYTRQAG	SKSSMSTATV	TVNVKNQDEG
PECIPQTQTV	RIRENVPIGT	RNDGYKAYDP	ETKNSIGIRY
RKLSDPKGWI	TVNEDSGSIT	IFRTL DREAE	TIRNGIYNIT
VLALDADGRS	CTGTLGILLE	DVNDNGPFIP	KQTVVICRAT
MSSAEIVAVD	PDEPANGPPF	DFSLESSDSE	VRRRWKLTRI
NDTAASLSYQ	NDPAFDSYVI	PVRVTDRFGL	SSVTS LN VVV
CDCITESDCT	YRTGERTGYA	DVRLGP	

**Biological Activity** Measured by the ability of the immobilized protein to support the adhesion of the Caki-2 human clear cell carcinoma epithelial cells. The adhesion rate for this effect is 75.84% in the presence of 10 µg/mL Rat DSC2.

**Appearance** Lyophilized powder

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

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recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

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**DESCRIPTION**

**Background**

Desmocollin-2 (DSC2) is a crucial component of intercellular desmosome junctions, playing a pivotal role in cell-cell adhesion. As part of desmosomes, DSC2 contributes to the intricate network that mediates cell-cell interactions. These junctions are essential for the maintenance of tissue integrity and provide structural support through the interaction of plaque proteins and intermediate filaments. DSC2's involvement in this molecular complex underscores its significance in ensuring the cohesion and stability of tissues, particularly those subjected to mechanical stress. The protein's function in promoting cell-cell adhesion highlights its importance in the maintenance of tissue architecture and overall cellular integrity. (

**Caution: Product has not been fully validated for medical applications. For research use only.**

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