

## DSC3/Desmocollin-3 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702265
Synonyms:	Desmocollin-3
Species:	Mouse
Source:	E. coli Cell-free
Accession:	P55850 (R136-R896)
Gene ID:	13507
Molecular Weight:	86.3 kDa

### PROPERTIES

#### AA Sequence

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RWAP I P C S M Q   E N S L G P F P L F   L Q Q V Q S D A A Q   N Y T V F Y S I S G
R G A D Q E P L N W   F F I E R D T G N L   Y C T R P V D R E E   Y D V F D L I A Y A
S T A D G Y S A D L   P L P L P I K I E D   E N D N Y P L F T E   A I Y A F E V P E G
S R L G T V V G T V   C A T D K D E P D T   M H T R L K Y S I L   E Q T P P S P G L F
S V H P D T G V I T   T V S H Y M D R E V   V D K Y K L I M K V   Q D M N G Q F F G L
I S T S T C I I T V   Q D S N D N A P T F   R Q N T Y E T A V E   E N T Y N V E I L R
I P V D D K D M I N   T A N W K A N F T I   L K G N E N G W F K   I T T D P V T N E G
V L C V V K P L D Y   E E N R Q V T L E I   G V N N E A P F I K   D V A N R I P T M N
R A M V T V H V K D   Q N E G P E C K P P   E Q Y V R I K E N S   A V G S K I N G Y K
A Y D P E T K N S N   G L R Y K K L Q D P   K D W V S I E E V S   G L L T I S K T L D
R E I M A P R N D M   Y N I T V M A I D Q   E G K S C T G T L A   V N I E D V N D N A
P E I I Q D Y I V I   C K P K M G Y T D I   S A V D P D E P I H   G P P F Q F N L A N
T S P E V N R I W T   L N Q V N D T A A R   L S Y Q K T A D V Q   I Y N V P V T V K D
R A G Q S A T K I L   R V N L C D C T H P   S Q C P L R S R S A   G I T L G K W A I L
A I L L G I A L L F   S V L L T L V C G V   V T A R K G K H F P   E D L A Q Q N L I I
S N T E A P G D D R   V C S A N G F T T H   T A N N S S Q G F C   G T M G S G M R N G
G Q E T I E M M K G   H Q T L D S C R V A   G H H H T L D S G R   G G H M D T D N C R
Y T Y S E W H S F T   Q P R L G E K L H V   C N Q N E D H I P S   Q D Y V L T Y N Y E
G R G S P A G S V G   C C S E K Q E E E G   L D F L N N L E P K   F L T L A E T C T K
R

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**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

**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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

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

**Shipping**

Room temperature in continental US; may vary elsewhere.

**DESCRIPTION****Background**

Desmocollin-3 (DSC3) is a vital component of intercellular desmosome junctions, essential for mediating cell-cell adhesion. Operating within these junctions, DSC3 facilitates the interaction between plaque proteins and intermediate filaments, playing a crucial role in the structural integrity and stability of tissues. Notably, DSC3 may contribute to the positioning and stratification of epidermal cells by mediating differential adhesiveness between cells expressing different isoforms. This suggests its involvement in the regulation of cell arrangements within the epidermal layer. The multifaceted functions of DSC3 underscore its significance in cellular adhesion processes and tissue organization, emphasizing its role in maintaining the proper structure and function of various tissues. (

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

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