Datasheet for ABIN3079162

Desmoglein 1 Protein (DSG1) (AA 50-548) (His tag)

5 Images

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Overview

Quantity:	1 mg
Target:	Desmoglein 1 (DSG1)
Protein Characteristics:	AA 50-548
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Desmoglein 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MEWIKFAAAC REGEDNSKRN PIAKIHSDCA ANQQVTYRIS GVGIDQPPYG IFVINQKTGE INITSIVDRE VTPFFIIYCR ALNSMGQDLE RPLELRVRVL DINDNPPVFS MATFAGQIEE NSNANTLVMI LNATDADEPN NLNSKIAFKI IRQEPSDSPM FIINRNTGEI RTMNNFLDRE QYGQYALAVR GSDRDGGADG MSAECECNIK ILDVNDNIPY MEQSSYTIEI QENTLNSNLL EIRVIDLDEE FSANWMAVIF FISGNEGNWF EIEMNERTNV GILKVVKPLD YEAMQSLQLS IGVRNKAEFH HSIMSQYKLK ASAISVTVLN VIEGPVFRPG SKTYVVTGNM GSNDKVGDFV ATDLDTGRPS TTVRYVMGNN PADLLAVDSR TGKLTLKNKV TKEQYNMLGG KYQGTILSID DNLQRTCTGT ININIQSFGN DDRTNTEPNT KITTNTGRQE STSSTNYDTS TTSTDSSQVY SSEPGNGAKD LLSDNVHFGP HHHHHH
Specificity:	C-terminal His-tag
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts.

Product Details

- Human DSG1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	Desmoglein 1 (DSG1)
Alternative Name:	DSG1 (DSG1 Products)
Background:	Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion.
Molecular Weight:	56.3 kDa Including tag.
UniProt:	Q02413

Target Details

Pathways:	Cell-Cell Junction Organization

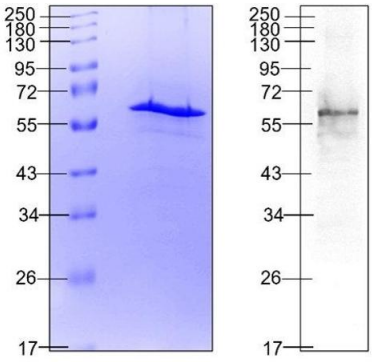
Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	C-terminal His-tag
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	20 mM Hepes, pH 7.5; 150 mM NaCl; 2% Lauroylsarcosin; 1mM EDTA; 1mM DTT
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Validation report #104253 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

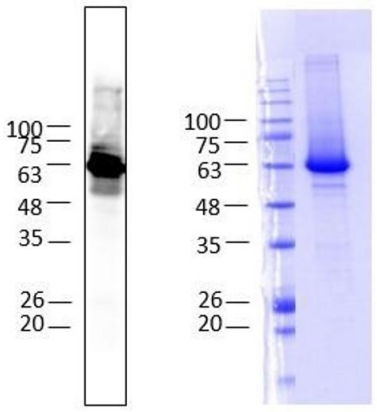


[Desmoglein][DSG1]|
[AA 50-548], Gel filtration,
[Superose 6 10/300GL]
[B7,B6,B5,B4,B3,B2,B1,C1,C2]

Western Blotting

Image 1.

Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Desmoglein (DSG1) (AA 50-548), gel filtration, fraction 12 - 13

Western Blotting

Image 3. Quality Control Images: Western Blotting + SDS-PAGE

Please check the product details page for more images. Overall 5 images are available for ABIN3079162.