



Recombinant Human Desmoglein-3 (DSG3), partial (Active)

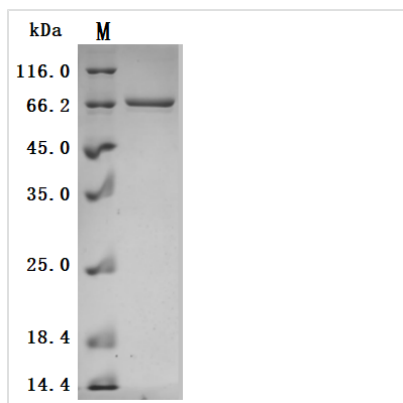
Product Code	CSB-BP007205HUc7
Abbreviation	Recombinant Human DSG3 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P32926
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human DSG3 at 2 µg/mL can bind Anti-DSG3 recombinant antibody (CSB-RA007205A0HU), the EC50 is 4.552-5.720 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	EWVKFAKPCREGEDNSKRNP IAKITSDYQATQKITYRISGVGIDQPPFGIFVVD KNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDINDNPPVFSQQ IFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNT GEVRTLTNSLDREQASSYRLVVSGADKDGEGSTQCECNKVKDVNDNFPMF RDSQYSARIEENILSSELLRFQVTDLDEEYTDNWLAVYFFTSGNEGNWFIEIQT DPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI NVREGIAFRPASKTFTVQKGISSKKLVLDYILGTQYQAIDEDTNKAASNVKYVMGR NDGGYLMIDSKTAEIKFVKNMNRDSTFIVNKTITAEVLAIDEYTGKTSTGTVYVR VPDFNDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTGPYTFALEDQPVKLPA VWSITTLNATSALLRAQEQIPPGVYHISLVLTDSQNNRCMPRSLTLEVCQCDN RGICGTSYPTTSPGTRYGRPHSGR
Research Area	other
Source	Baculovirus
Target Names	DSG3
Expression Region	50-615aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	63.8 kDa



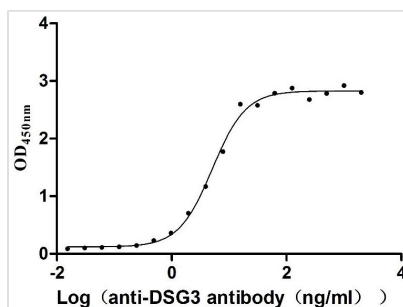
Protein Length

Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized Human DSG3 at 2 µg/mL can bind Anti-DSG3 recombinant antibody (CSB-RA007205A0HU), the EC₅₀ is 4.552-5.720 ng/mL.

Description

This Human DSG3 recombinant protein was produced in baculovirus, where the gene sequence encoding Human DSG3 (50-615aa) was expressed with the C-terminal 6xHis tag. The purity of this DSG3 protein was greater than 95% by SDS-PAGE. The activity was validated.

DSG3 (Desmoglein 3) is an autoantibody obtained from the serum of patients suffering from an autoimmune vesicle formation disease of the skin and mucous membranes—pemphigus vulgaris (PV). Immunoprecipitation, for the first time identified a glycoprotein with a molecular weight of 130 kDa, named PV antigen (PVA). DSG3 is closely related to dermatology and is the target of various autoimmune and some hereditary bullous diseases including pemphigus. More and more studies have shown that DSG3 may play an important role in the process of cell proliferation, apoptosis and migration. Therefore, DSG3 may be clinically relevant to the occurrence and development of squamous cell carcinoma. At present, the detection of serum anti-desmoglein DSG3 antibody has been used in the diagnosis of pemphigus, and plays a key role in the development of therapeutic candidate drugs and diagnostic kits for diseases such as pemphigus.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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