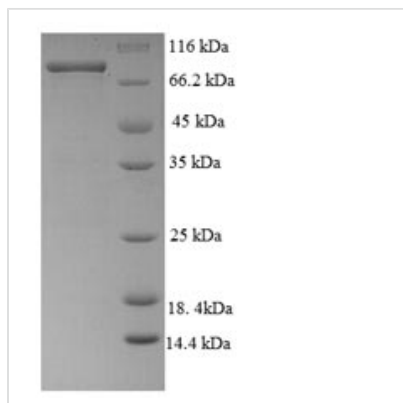


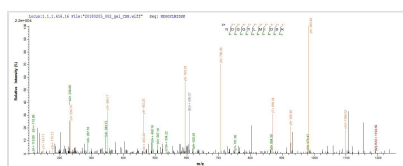


Recombinant Human Desmoglein-3 (DSG3), partial

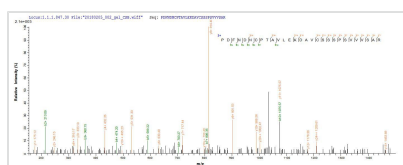
Product Code	CSB-EP007205HU
Relevance	Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion.
Abbreviation	Recombinant Human DSG3 protein, partial
Storage	The shelf life is related to many factors, storage 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
Alias	130 kDa pemphigus vulgaris antigen ;PVACadherin family member 6
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EWVKFAKPCREGEDNSKRNP IAKITS SDYQATQKITYRISGVGIDQPPFGIFVVD KNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDINDNPPVFSQQ IFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNT GEVRTLTNSLDREQASSYRLVVS GADKDGEGLSTQCECNKVKDVNDNFPMF RDSQYSARIEENILSSELLRFQVTDLDEEYTDNLAVYFFTSGNEGNWFEIQT DPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI NVREGIAFRPASKTFTVQKGISSKKLV DYILGTYQAIDEDTNKAASNVKYVMGR NDGGYLMIDSKTAEIKFVKNMNRDSTFIVNKTITAEVLAIDEYTGKTSTGTVYVR VPDFDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTGPYTFALEDQPVKLPA VWSITTLNATSALLRAQEQIPPGVYHISLVLTDSQNNRCEMPLSLTLEVCQCDN RGICGTSYPTTSPGTRYGRPHSGR
Research Area	Cell Adhesion
Source	E.coli
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	N-terminal 6xHis-SUMO-tagged
Mol. Weight	79.0kDa
Protein Length	Extracellular Domain
Image	



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP007205HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) DSG3.



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Description

E.coli-expressed Desmoglein-3/DSG3 CSB-EP007205HU is a recombinant fusion protein of partial DSG3 coupled to a 6xHis-SUMO-tag at the N-terminus. This protein consists of the extracellular domain (50-615aa) of human DSG3 and has a calculated molecular weight of 79.0 kDa. Its identity was validated by the LC-MS/MS analysis. The SDS-PAGE showed an about 90 kDa molecular mass of this protein and determines the purity of over 90%. In-stock DSG3 proteins are offered now. This recombinant DSG3 protein may find uses in the anti-DSG3 antibody production or the studies of cell adhesion.

DSG3 is an adhesion protein in desmosomes. It plays a regulatory role in various signaling pathways that facilitate cell adhesion, differentiation, proliferation, morphogenesis, and migration. In Pemphigus Vulgaris (PV), DSG3 is down-regulated and serves as a major Pemphigus Vulgaris antigen (PVA) for auto-antibodies, disrupting cell-cell cohesion and pemphigus acantholysis in Dsg3-expressing tissues. While DSG3 is up-regulated in some types of cancer and is involved in tumor progression and metastasis.

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. 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.