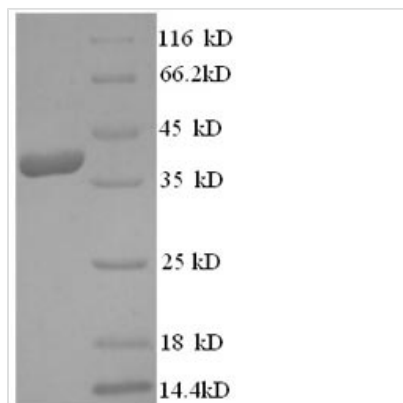




Recombinant Human Dermcidin (DCD)

Product Code	CSB-EP006537HU
Relevance	DCD-1 displays antimicrobial activity thereby limiting skin infection by potential pathogens in the first few hours after bacterial colonization. Highly effective against E.coli, E.faecalis, S.aureus and C.albicans. Optimal pH and salt concentration resble the conditions in sweat. Also exhibits proteolytic activity.Survival-promoting peptide promotes survival of neurons and displays phosphatase activity. It may bind IgG.
Abbreviation	Recombinant Human DCD protein
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.	P81605
Alias	Preproteolysin
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YDPEAASAPGSGNPCHEASAAQKENAGEDPGLARQAPKPRKQRSSLLEKGL DGAKKAVGGLGKLGKDAVEDLESVGKGAVHDVKDVLDSVL
Research Area	Signal Transduction
Source	E.coli
Target Names	DCD
Expression Region	20-110aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	36.3kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The expression region of this recombinant Human DCD covers amino acids 20-110. The theoretical molecular weight of the DCD protein is 36.3 kDa. This DCD protein is produced using e.coli expression system. The DCD gene fragment has been modified by fusing the N-terminal GST tag, providing convenience in detecting and purifying the recombinant DCD protein during the following stages.

Dermcidin (DCD) is a human antimicrobial peptide with a broad-spectrum role in the innate immune system. It is primarily produced in eccrine sweat glands and secreted into sweat, saliva, and other bodily fluids. Dermcidin exhibits potent antimicrobial properties, particularly against bacteria, fungi, and certain viruses. By disrupting microbial membranes and inhibiting bacterial growth, dermcidin plays a crucial role in protecting the skin and mucous membranes from pathogenic infections. Additionally, dermcidin's involvement in immune responses and its potential as an antimicrobial therapeutic agent make it a subject of interest in research related to infectious diseases and dermatological conditions. Understanding dermcidin's functions contributes to insights into host defense mechanisms and the development of novel antimicrobial strategies.

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.