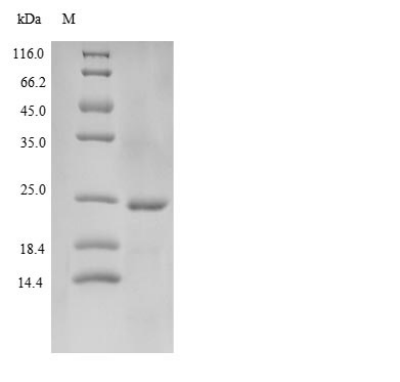
Recombinant Human Cathelicidin antimicrobial peptide (CAMP)

Product Code	CSB-EP004476HUb3
Relevance	Binds to bacterial lipopolysaccharides (LPS), has antibacterial activity.
Abbreviation	Recombinant Human CAMP 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.	P49913
Alias	18 kDa cationic antimicrobial protein
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	FALLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES
Research Area	others
Source	E.coli
Target Names	CAMP
Expression Region	132-170aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	24.7kDa
Protein Length	Full Length of Mature Protein

Image



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

Description

Amino acids 132-170 form the expressed segment for recombinant Human CAMP. The theoretical molecular weight of the CAMP protein is 24.7 kDa. The CAMP protein was expressed in e.coli. The N-terminal 10xHis-SUMO tag and C-terminal Myc tag was fused into the coding gene segment of CAMP, making it easier to detect and purify the CAMP recombinant protein in the later stages of expression and purification.

Cathelicidin antimicrobial peptide (CAMP) is a protein primarily studied in the fields of immunology and infectious diseases. Its pivotal role lies in the innate immune system, where it acts as a natural antibiotic, defending against microbial invaders. Researchers focus extensively on CAMP's involvement in combating bacterial, viral, and fungal infections, making it a key player in understanding host defense mechanisms. The most significant and widely explored area is its impact on antimicrobial activity, unveiling insights into potential therapeutic strategies against infectious diseases. Additionally, studies touch upon CAMP's contribution to inflammatory responses and its implications in various dermatological conditions, shedding light on skin immunity. While CAMP's main spotlight is on infection defense, its diverse roles across different immune processes hint at broader applications in medicine and immunotherapy.

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.