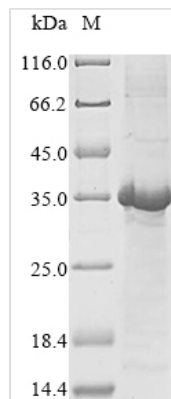




Recombinant Human Neutrophil defensin 1 (DEFA1)

Product Code	CSB-EP006652HU
Relevance	Defensin 1 and defensin 2 have antibacterial, fungicide and antiviral activities. Has antimicrobial activity against Gram-negative and Gram-positive bacteria. Defensins are thought to kill microbes by permeabilizing their plasma membrane.
Abbreviation	Recombinant Human DEFA1 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.	P59665
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MRTLAILAAILLVALQAQAEPLQARADEVAAAPAEQIAADIPEVVVSLAWDESLAP KHPGSRKNMACYCRIPACIAGERRYGTCTIYQGRLWAFCC
Source	E.coli
Target Names	DEFA1
Protein Names	Recommended name: Neutrophil defensin 1 Alternative name(s): Defensin, alpha 1 HNP-1 Short name= HP-1 Short name= HP1 Cleaved into the following 2 chains: 1. HP 1-56 2. Neutrophil defensin 2 Alternative name(s): HNP-2 Short n
Expression Region	1-94aa
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	37.2kDa
Protein Length	Full Length
Image	



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

Description

The expression region of this recombinant Human DEFA1 covers amino acids 1-94. This DEFA1 protein is theoretically predicted to have a molecular weight of 37.2 kDa. Expression of this DEFA1 protein is conducted in e.coli. The DEFA1 gene fragment has been modified by fusing the N-terminal GST tag, providing convenience in detecting and purifying the recombinant DEFA1 protein during the following stages.

Neutrophil defensin 1 (DEFA1) is a member of the defensin family, small cationic peptides with antimicrobial properties. DEFA1 is primarily produced by neutrophils, a type of white blood cell, and serves as part of the innate immune system's defense against microbial infections. This antimicrobial peptide exerts its function by disrupting the microbial cell membrane, leading to cell death. Beyond its antimicrobial role, DEFA1 has been implicated in various immune responses and inflammatory processes. Research areas related to DEFA1 include investigations into its role in host-pathogen interactions, immune regulation, and potential therapeutic applications in combating infectious diseases. Understanding the functions of DEFA1 contributes to insights into the immune system's defense mechanisms.

Shelf Life

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