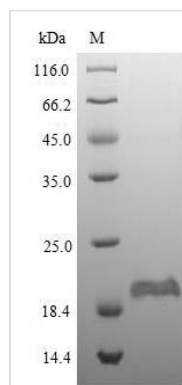




Recombinant Mouse Beta-defensin 1 (Defb1)

Product Code	CSB-EP006662MO
Relevance	Has bactericidal activity.
Abbreviation	Recombinant Mouse Defb1 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.	P56386
Alias	Short name:BD-1 Short name:mBD-1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DQYKCLQHGGFCLRSSCPSTKLQGTCKPDKPNCKS
Research Area	Others
Source	E.coli
Target Names	Defb1
Expression Region	33-69aa
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	20.1kDa
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 Mouse Defb1 covers amino acids 33-69. This Defb1 protein is theoretically predicted to have a molecular weight of



20.1 kDa. This Defb1 recombinant protein is manufactured in e.coli. The Defb1 gene fragment has been modified by fusing the N-terminal 6xHis-SUMO tag, providing convenience in detecting and purifying the recombinant Defb1 protein during the following stages.

Mouse beta-defensin 1 (Defb1) is a member of the beta-defensin family, which are small cationic peptides with antimicrobial properties. Defb1 is expressed in various tissues, including the skin, respiratory tract, and reproductive organs, serving as a component of the innate immune system. Its main function is to protect against microbial infections by disrupting the cell membranes of bacteria, fungi, and viruses. Additionally, Defb1 has been implicated in immune modulation and wound healing processes. Research areas related to Defb1 include investigations into its role in host-pathogen interactions, its contribution to mucosal immunity, and its potential therapeutic applications in combating infectious diseases. Understanding Defb1 enhances our knowledge of innate immune defense mechanisms.

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.