

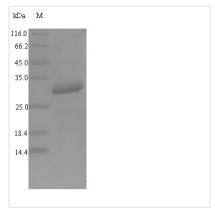






Recombinant Mouse Alpha-defensin 1 (Defa1)

Product Code	CSB-YP006652MO
Relevance	Probably contributes to the antimicrobial barrier function of the small bowel mucosa. Has antibacterial activity against attenuated mutants of S.typhimurium.
Abbreviation	Recombinant Mouse 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.	P11477
Alias	Cryptdin-1 Defensin-related cryptdin peptide
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	LRDLVCYCRSRGCKGRERMNGTCRKGHLLYTLCCR
Research Area	Immunology
Source	Yeast
Target Names	Defa1
Protein Names	Recommended name: Alpha-defensin 1 Alternative name(s): Cryptdin-1 Defensin-related cryptdin peptide
Expression Region	59-93aa
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	31.1kDa
Protein Length	Full Length of Mature Protein
Image	(Tris-Glycine gel) Discontinuous SDS-PAGE
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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.









Description

The production of this Recombinant Mouse Defa1 protein required the insertion of a DNA fragment (Defa1, 59-93aa) into a plasmid vector and the transferral of this vector into Yeast cells (the step of transformation). The cells were then cultured and induced to express the Defa1 protein. This recombinant protein was fused with N-terminal GST tag. Its purity is 90%+ determined by SDS-PAGE.

Defa1 (also called Defcr or Defcr1) is a gene providing an instruction of making a protein named alpha-defensin 1 (Defa1) in mus musculus (mouse). Defa1 protein is also known as cryptdin-1 or defensin-related cryptdin peptide and belongs to alpha-defensin (α -defensin) family. Mammalian α -defensins are cationic antimicrobial peptides (AMPs) with microbicidal activities against many species of bacteria (such as gram-negative and gram-positive bacterium) and fungi, antiviral functions, and diverse immunomodulatory effects (such as innate immune response in mucosa).

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.