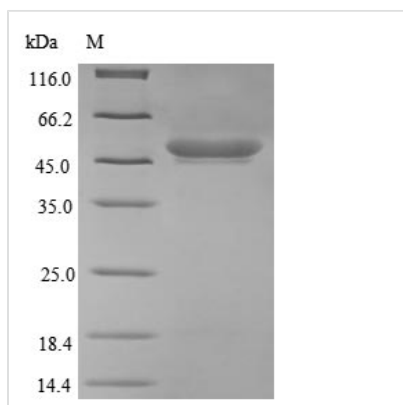


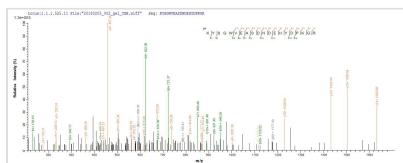


Recombinant Escherichia coli O157:H7 Protease 7 (ompT)

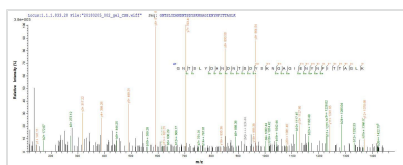
Product Code	CSB-EP348292EOD(M)
Relevance	Protease that can cleave T7 RNA polymerase, ferric enterobactin receptor protein (FEP), antimicrobial peptide protamine and other proteins. This protease has a specificity for paired basic residues
Abbreviation	Recombinant E.coli O157:H7 ompT protein (G236K,K237G)
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.	P58603
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli O157:H7
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	STETLSFTPDNINADISLGLTSGKTKERVYLAEEGGRKVSQLDWKFNNAAIIKG AINWDLMPQISIGAAGWTTLGSRGGMVDQDQWMDSSNPGTWTDESHPDT QLNYANEFDLNKGWLLNEPNYRLGLMAGYQESRYSFTARGGSYIYSSEEGFR DDIGSFPNGERAIGYKQRFKMPYIGLTGSYRYEDFELGGTFKYSGWVEASDN DEHYDPKGRITYRSKVKDQNYYSVSVNAGYYVTPNAKVYVEGTWNRVTNKKG NTSLYDHNDNTSDYSKNGAGIENYNFITTAGLKYTF
Research Area	Microbiology
Source	E.coli
Target Names	ompT
Protein Names	OmptinOuter membrane protein 3BProtease AProtease VII
Expression Region	21-317aa
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	49.5 kDa
Protein Length	Full Length of Mature Protein
Image	



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP348292EOD(M) could indicate that this peptide derived from E.coli-expressed Escherichia coli O157:H7 ompT.



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Description

The cDNA fragment encoding 21-317aa of Escherichia coli O157: H7 Protease 7 (ompT) was fused with an N-terminal 6xHis-SUMO-tag and then expressed in E.coli cells. The product obtained is the Recombinant full-length of mature Mouse Escherichia coli O157: H7 ompT protein. The purity of this protein was assessed by SDS-PAGE electrophoresis and Coomassie blue staining and reached up to 90%. On the reducing SDS-PAGE gel, there presented a molecular mass band of about 53 kDa. The slightly higher result was attributed to glycosylation. This ompT protein was also validated by the LC-MS/MS analysis. In-stock ompT proteins are available now. In addition to acting as an immunogen for specific antibody synthesis, this recombinant ompT protein may be used in the studies of microbiology.

OmpT is an outer membrane protease of E.coli and plays an important role in resistance to host-generated antimicrobial peptides (AMPs). OmpT rapidly cleaves and inactivates AMPs, including LL-37 and protamine. AMP inactivation mediated by OmpT supports host colonization by some pathogenic E. coli strains.

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.