



# Recombinant Yersinia enterocolitica Outer membrane virulence protein YopE (yopE)

<b>Product Code</b>	CSB-CF330087YAQ
Relevance	Essential virulence determinant; cytotoxic effector, involved in resistance to phagocytosis
Abbreviation	Recombinant Yersinia enterocolitica yopE 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.	P31492
Product Type	Transmembrane Protein
Immunogen Species	Yersinia enterocolitica
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MKISSFISTSLPLPASVSGSSSVGEMSGRSVSQQKSDQYANNLAGRTESPQG SSLASRIIERLSSMAHSVIGFIQRMFSEGSHKPVVTPALTPAQMPSPTSFSDSIK QLAAETLPKYMQQLSSLDAETLQKNHDQFATGSGPLRGSITQCQGLMQFCGG ELQAEASAILNTPVCGIPFSQWGTVGGAASAYVASGVDLTQAANEIKGLGQQM QQLLSLM
Research Area	Others
Source	in vitro E.coli expression system
Target Names	yopE
Expression Region	1-219aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	26.9kDa
Protein Length	Full Length
Image	



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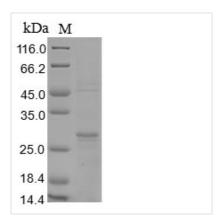


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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

# **Description**

Design a plasmid containing the gene sequence encoding the Yersinia enterocolitica yopE (1-219aa) with the N-terminal 6xHis tag. This plasmid also includes other regulatory elements such as a promoter, ribosome binding site (RBS), and a terminator sequence. Linearize the recombinant plasmid using restriction enzymes. Add substrates, energy, amino acids, nucleotides, cofactors, salts, and an inducer IPTG to the E. coli cell-free extract to induce protein expression. This will trigger the promoter and initiate transcription and translation of the yopE gene. Monitor protein synthesis and harvest the reaction when the desired protein yield is achieved. Apply the harvested reaction mixture to an affinity column to obtain the purified yopE protein. Analyze the purified recombinant Yersinia enterocolitica yopE protein using SDS-PAGE to confirm identity and purity. Its purity is over 90%.

#### 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

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