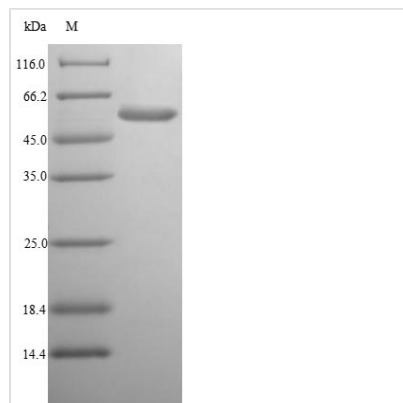




Recombinant *Vibrio vulnificus* Cytolysin (vvhA)

Product Code	CSB-EP323085VFI
Relevance	Bacterial hemolysins are exotoxins that attack blood cell membranes and cause cell rupture by mechanisms not clearly defined.
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.	P19247
Product Type	Recombinant Protein
Immunogen Species	<i>Vibrio vulnificus</i> (strain CMCP6)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	QEYVPIVEKPIYITSSKIKCVLHTSGDFNATRDWCNAGASIDVRVNVAQMRSVQ SATSDGFTPDAKIVRFTVDADKPGTGIHLVNELQQDHSWFQSWANRRTYIGPF ASSYDLWVKPVSGYTPKKARDLPQENKNYQHRDYGYSIGINGKVGAEVVK DGPKVGGGEVSGSFTYNYSKTLVFDTKDYRINNRRSSLSDFDISFEREFGECDL RRQELGCYFTAHHWGSWVFDKTKFNPISSYNSFKPNYDVLVEAPVSETGVTD FEMGVKLNRYRFRFGTVLPALFSVYGSAGSSTNSSTVKQRIRIDWNHPLFEAE AHVTLQSLSNNDLCLDVYGENGDKTVAGGSVNGWSCHGSGWNQVWGLDKEE RYRSRVASDRCLTVNADKTLTVEQCGANLAQKWYWEGDKLISRYVDGNNT YLLNIVGGRNVQVTPENEANQARWKPTLQQVKL
Lead Time	3-7 business days
Research Area	others
Source	E.coli
Gene Names	vvhA
Protein Names	Recommended name: Cytolysin
Expression Region	21-471aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	55.8 kDa
Protein Description	Full Length of Mature Protein
Image	



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

Description

The synthesis of Recombinant *V. vulnificus* vvhA protein began with the isolation of vvhA gene from the native genome. The next step was to amplify the vvhA gene by inserting the vvhA gene into an expression vector and then introducing the vector into the selected host cell, *E. coli*. Significant amounts of recombinant *V. vulnificus* vvhA protein were produced by the host only when expression genes were added. For the purpose of protein purification, the vector contains N-terminal 10xHis tag & C-terminal Myc tag to the vvhA DNA sequence. The purity of this protein is 85%+ determined by SDS-PAGE.

vvhA (also known as VV2_0404) is a gene encoding a protein named cytolysin in *Vibrio vulnificus*. The protein encoded by this gene belongs to HlyA hemolysin family. It has been proposed as a virulence factor with a molecular weight of 51kDa. This protein is specifically toxic to individual cells. It is involved in hemolysis in other organism, cytolysis and virulence.

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.