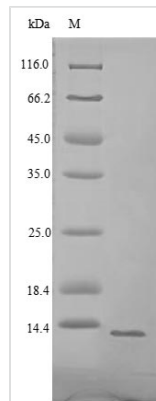




Recombinant Enterobacteria phage H19B Shiga-like toxin 1 subunit B (stxB)

Product Code	CSB-EP300809EKZa0
Relevance	The B subunit is responsible for the binding of the holotoxin to specific receptors on the target cell surface, such as globotriaosylceramide (Gb3) in human intestinal microvilli.
Abbreviation	Recombinant Enterobacteria phage H19B stxB 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.	P69179
Product Type	Recombinant Protein
Immunogen Species	Enterobacteria phage H19B (Bacteriophage H19B)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	TPDCVTGKVEYTKYNDDDTFTVKVGDKELFTNRWNLQSLLLSAQITGMTVTIKT NACHNGGGFSEVIFR
Research Area	others
Source	E.coli
Target Names	stxB
Protein Names	Verocytotoxin 1 subunit B
Expression Region	21-89aa
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	11.7 kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

To prepare this Recombinant Enterobacteria phage H19B stxB protein, the recombinant DNA was required, which was generated by fusing the stxB gene with N-terminal 6xHis tag sequence. Once the recombinant DNA was amplified and purified, a protein expression system, E.coli, was needed for this stxB protein production. After purification, a premium stxB recombinant protein was obtained. According to SDS-PAGE, its purity turns out to be 85%+.

stxB is a protein encoding gene encoding a protein named shiga-like toxin 1 subunit B (SLT-Ib). The protein encoded by this gene is also known as verocytotoxin 1 subunit B that is a nontoxic subunit of shiga-like toxin. Shiga-like toxins are produced by bacteria capable of infecting humans and causing life-threatening disease. stxB protein is the functional region by binding to the receptor, and the recombinant stxB protein can be useful in vaccine study, antibody test and other functional research.

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.