

H19B Shiga-like toxin 1 subunit B Recombinant Protein | stxB recombinant protein

Recombinant Enterobacteria phage H19B Shiga-like toxin 1 subunit B

CATALOG # AAA115361	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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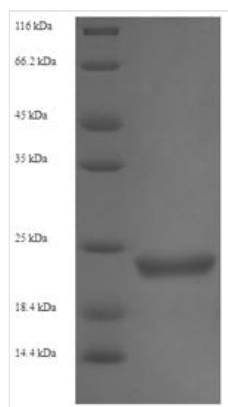
PRODUCT SYNONYMS

H19B Shiga-like toxin 1 subunit B; Recombinant Enterobacteria phage H19B Shiga-like toxin 1 subunit B; Verocytotoxin 1 subunit B; Verotoxin 1 subunit B; stxB recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	21-89aa; Full Length of Mature Protein
Sequence	TPDCVTGKVE YTKYNDDDTF TVKVGDKELF TNRWNLQSL LSAQITGMTV TIKTNACHNG GGFSEVIFR
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for stxB recombinant protein	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.
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References	Nucleotide sequence of the Shiga-like toxin genes of Escherichia coli. Calderwood S.B., Auclair F., Donohue-Rolfe A., Keusch G.T., Mekalanos J.J. Proc. Natl. Acad. Sci. U.S.A. 84:4364-4368(1987) Nucleotide sequence and promoter mapping of the Escherichia coli Shiga-like toxin operon of bacteriophage H-19B. de Grandis S., Ginsberg J., Toone M., Climie S., Friesen J., Brunton J.L.J. Bacteriol. 169:4313-4319(1987) Phenylalanine 30 plays an important role in receptor binding of verotoxin-1. Clark C., Bast D.J., Sharp A.M., St Hilaire P.M., Agha R., Stein P.E., Toone E.J., Read R.J., Brunton J.L. Mol. Microbiol. 19:891-899(1996) The identification of three biologically relevant globotriaosyl ceramide receptor binding sites on the Verotoxin 1 B subunit. Bast D.J., Banerjee L., Clark C., Read R.J., Brunton J.L. Mol. Microbiol. 32:953-960(1999) Crystal structure of the cell-binding B oligomer of verotoxin-1 from E. coli. Stein P.E., Boodhoo A., Tyrrell G.J., Brunton J.L., Read R.J. Nature 355:748-750(1992) Solution structure of the carbohydrate-binding B-subunit homopentamer of verotoxin VT-1 from E. coli. Richardson J.M., Evans P.D., Homans S.W., Donohue-Rolfe A. Nat. Struct. Biol. 4:190-193(1997) Structure of the shiga-like toxin I B-pentamer complexed with an analogue of its receptor Gb3. Ling H., Boodhoo A., Hazes B., Cummings M.D., Armstrong G.D., Brunton J.L., Read R.J. Biochemistry 37:1777-1788(1998) Shiga-like toxins are neutralized by tailored multivalent carbohydrate ligands. Kitov P.I., Sadowska J.M., Mulvey G., Armstrong G.D., Ling H., Pannu N.S., Read R.J., Bundle D.R. Nature 403:669-672(2000)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	59800334
UniProt Accession #	P69179; P08027
Molecular Weight	23.7 kDa
NCBI Official Full Name	Shiga-like toxin 1 subunit B
UniProt Protein Name	Shiga-like toxin 1 subunit B
UniProt Gene Name	stxB
UniProt Synonym Gene Names	sltB; SLT-1 B subunit; SLT-1b; SLT-1b; Verotoxin 1 subunit B
UniProt Entry Name	STXB_BPH19

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.