

933W Shiga-like toxin 2 subunit B Recombinant Protein | stxB2 recombinant protein

Recombinant Enterobacteria phage 933W Shiga-like toxin 2 subunit B (stxB2)

CATALOG # AAA115047	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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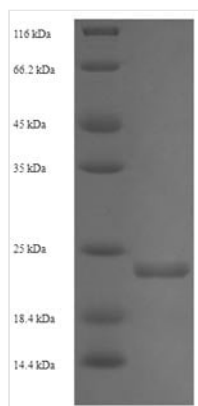
PRODUCT SYNONYMS

933W Shiga-like toxin 2 subunit B; Recombinant Enterobacteria phage 933W Shiga-like toxin 2 subunit B (stxB2); Verocytotoxin 2 subunit B; Verotoxin 2 subunit B; stxB2 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	20-89aa; Full Length of Mature Protein
Sequence	ADCAKGKIEF SKYNEDDTFT VKVDGKEYWT SRWNLQPLLQ SAQLTGMTVT IKSSTCESGS GFAEVQFNND
Production Note	Special Offer: The E Coli, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli, Yeast host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
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 stxB2 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 analysis and comparison of the structural genes for Shiga-like toxin I and Shiga-like toxin II encoded by bacteriophages from Escherichia coli 933.Jackson M.P., Neill R.J., O'Brien A.D., Holmes R.K., Newland J.W.FEMS Microbiol. Lett. 44:109-114(1987) An ileX tRNA gene is located close to the Shiga toxin II operon in enterohemorrhagic Escherichia coli O157 and non-O157 strains.Schmidt H., Scheef J., Janetzki-Mittmann C., Datz M., Karch H.FEMS Microbiol. Lett. 149:39-44(1997) Sequence of Shiga toxin 2 phage 933W from Escherichia coli O157:H7 Shiga toxin as a phage late-gene product.Plunkett G. III, Rose D.J., Durfee T.J., Blattner F.R.J. Bacteriol. 181:1767-1778(1999) Identification of three amino acid residues in the B subunit of Shiga toxin and Shiga-like toxin type II that are essential for holotoxin activity.Perera L.P., Samuel J.E., Holmes R.K., O'Brien A.D.J. Bacteriol. 173:1151-1160(1991) Structure of shiga toxin type 2 (Stx2) from Escherichia coli O157:H7.Fraser M.E., Fujinaga M., Cherney M.M., Melton-Celsa A.R., Twiddy E.M., O'Brien A.D., James M.N.G.J. Biol. Chem. 279:27511-27517(2004) Binding of adenine to Stx2, the protein toxin from Escherichia coli O157:H7.Fraser M.E., Cherney M.M., Marcato P., Mulvey G.L., Armstrong G.D., James M.N.Acta Crystallogr. F 62:627-630(2006)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9632507
NCBI GeneID	1262010
NCBI Accession #	NP_049501.1
NCBI GenBank Nucleotide #	NC_000924.1
UniProt Accession #	P09386 ; Q96198 ; S01033
Molecular Weight	23.8 kDa
NCBI Official Full Name	Shiga toxin 2 subunit B
NCBI Official Symbol	stxB2
NCBI Official Synonym Symbols	L0104; sttIIB; stx2B
NCBI Protein Information	Shiga toxin 2 subunit B
UniProt Protein Name	Shiga-like toxin 2 subunit B
UniProt Gene Name	stxB2
UniProt Synonym Gene Names	stx2B; SLT-2 B subunit; SLT-2b; SLT-IIb; Verotoxin 2 subunit B
UniProt Entry Name	STXB_BP933

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.

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Online datasheet: <https://www.aaabiotech.com/stxb2-recombinant-protein-e-coli/115047>