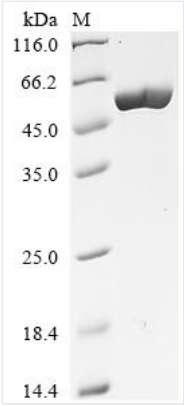
Tetanus Toxin Clostridium Tetani Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tetanus toxin, Recombinant Protein
Full Product Name	Recombinant Clostridium tetani Tetanus toxin, partial
Sequence	KNLDCWVDNE EDIDVILKKS TILNLDINND IISDISGFNS SVITYPDAQL VPGINGKAIH LVNNESSEVI VHKAMDIEYN DMFNNFTVSF WLRVPKVSAS HLEQYDTNEY SIISSMKKYS LSIGSGWSVS LKGNNLIWTL KDSAGEVRQI TFRDLSDKFN AYLANKWVFI TITNDRLSSA NLYINGVLMG SAEITGLGAI REDNNITLKL DRCNNNNQYV SIDKFRIFCK ALNPKEIEKL YTSYLSITFL RDFWGNPLRY DTEYYLIPVA YSSKDVQLKN ITDYMYLTNA PSYTNGKLNI YYRRLYSGLK FIIKRYTPNN EIDSFVRSGD FIKLYVSYNN NEHIVGYPKD GNAFNNLDRI LRVGYNAPGI PLYKKMEAVK LRDLKTYSVQ LKLYDDKDAS LGLVGTHNGQ IGNDPNRDIL IASNWYFNHL KDKTLTCDWY FVPTDEGWIN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8
Purity/Purification	Greater than 85% as determined by SDS-PAGE. (lot specific)
Preparation and 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 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. 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 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Molecular Weight	58.6kDa
Sequence Positions	866-1310aa+EGWIN; Partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q93N27
Species	Clostridium tetani
Tag	C-terminal 6xHis-tagged
Research Area	Others
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for Tetanus toxin recombinant protein	Transcription factor that either stimulates or represses gene transcription through binding of different DNA regulatory elements such as cAMP response element (CRE)(consensus: 5'-GTGACGT[AC][AG]-3'), ATF5-specific response element (ARE)(consensus: 5'-C[CT]TCT[CT]CCTT[AT]-3') but also the amino acid response element (AARE), present in many viral and cellular promoters. Critically involved, often in a cell type-dependent manner, in cell survival, proliferation, and differentiation. Its transcriptional activity is enhanced by CCND3 and slightly inhibited by CDK4. Important regulator of the cerebral cortex formation, functions in cerebral cortical neuroprogenitor cells to maintain proliferation and to block differentiation into neurons. Must be down-regulated in order for such cells to exit the cycle and differentiate. Participates in the pathways by which SHH promotes cerebellar granule neuron progenitor cells proliferation. Critical for survival of mature olfactory sensory neurons (OSN), directs expression of OSN-specific genes. May be involved in osteogenic differentiation. Promotes cell proliferation and survival by inducing the expression of EGR1 sinergistically with ELK1. Once acetylated by EP300, binds to ARE sequences on target genes promoters, such as BCL2 and EGR1. Plays an anti-apoptotic role through the transcriptional regulation of BCL2, this function seems to be cell type-dependent. Cooperates with NR1I3/CAR in the transcriptional activation of CYP2B6 in liver. In hepatic cells, represses CRE-dependent transcription and inhibits proliferation by blocking at G2/M phase. May act as a negative regulator of IL1B transduction pathway in liver. Upon IL1B stimulus, cooperates with NLK to activate the transactivation activity of C/EBP subfamily members. Besides its function of transcription factor, acts as a cofactor of CEBPB to activate CEBPA and promote adipocyte differentiation. Regulates centrosome dynamics in a cell-cycle- and centriole-age-dependent manner. Forms 9-foci symmetrical ring scaffold around the mother centriole to control centrosome function and the interaction between centrioles and pericentriolar material.
Product References and Citations for Tetanus toxin recombinant protein	"Mouse Atf5: molecular cloning of two novel mRNAs, genomic organization, and odorant sensory neuron localization."Hansen M.B., Mitchelmore C., Kjaerulff K.M., Rasmussen T.E., Pedersen K.M., Jensen N.A.Genomics 80:344-350(2002)
Other Notes	Small volumes of Tetanus toxin recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Tetanus toxin purchase	MBS9020526 is a recombinant protein targeting Tetanus toxin. Also known as Recombinant Clostridium tetani Tetanus toxin, partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-Page of Tetanus toxin recombinant protein
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tetanus toxin. It may not necessarily be applicable to this product.

UniProt Primary Accession #	Q93N27
Protein Family	Tetanus toxin
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