

## Datasheet for ABIN7582361 **Tetanus Toxin Protein (TetX)**

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### Overview

Quantity:	10 µg
Target:	Tetanus Toxin (TetX)
Origin:	Clostridium tetani
Source:	Clostridium tetani
Protein Type:	Native
Application:	Blocking Peptide (BP)

### Product Details

Purpose:	An Inhibitor of Neurotransmitter Release
Specificity:	Disulfide bonds between Cys439-Cys467 and Cys1077-Cys1093
Characteristics:	An Inhibitor of Neurotransmitter Release
Purity:	≥97 % (HPLC)

### Target Details

Target:	Tetanus Toxin (TetX)
Alternative Name:	Tetanus Toxin ( <a href="#">TetX Products</a> )
Target Type:	Bacteria
Background:	Tentoxylisin, Tetanus toxin is a 150 kD protein produced by the gram positive bacteria Clostridium tetani under anaerobic condition <sup>1</sup> . Tetanus toxin is a heterodimer of A-chain (50 kD) and B-chain (100 kD) linked by one disulfide bond <sup>2,3</sup> . The A-chain has a zinc endopeptidase

## Target Details

activity while the B-chain has a role in toxin anchoring to neuronal membranes<sup>4</sup>. Tetanus toxin spreads in the body through the lymphatic and vascular systems to the neuromuscular junction, internalized to peripheral neuron synapses, and moves by retrograde transport up the axon into the spinal cord where it can move between postsynaptic and presynaptic neurons to the CNS<sup>5</sup>. There, it inhibits neurotransmitter release by the specific degradation of the vesicle-secretory protein-Synaptobrevin<sup>6</sup>.

Molecular Weight: 150 kDa

UniProt: [P04958](#)

## Application Details

Application Notes: Antigen PreadSORption Control: 1 - 100 nM

Comment: Electrophysiology

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial (10,000 x g for 5 minutes) before adding solvent to spin down all the powder to the bottom of the vial. The lyophilized product may be difficult to visualize. Add solvent directly to the centrifuged vial. Gently tap, tilt, and roll the vial to aid dissolution. Avoid vigorous vortexing, light vortexing for up to 3 seconds is acceptable if needed. Soluble in any conventional buffer containing 0.01 KH<sub>2</sub>PO<sub>4</sub>, 0.1 % gelatin and/or 0.1 % bovine serum albumin (BSA). The use of gelatin or 0.01 % BSA coated/treated glassware is recommended. Centrifuge all product preparations before use (10000 x g 5 min).

Buffer: Lyophilized Powder.

Storage: 4 °C, -20 °C

Storage Comment: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods (up to 6 months), small aliquots should be stored at -20°C. We do not recommend storing the product in working solutions for longer than a few days. Avoid multiple freeze-thaw cycles. The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods (up to 6 months), small aliquots should be stored at -20°C. We do not recommend storing the product in working solutions for longer than a few days. Avoid multiple freeze-thaw cycles.