

BP1072CP**Synthetic Tetanus Toxin Peptide (C-term)****Alternate names:**

Clostridium tetani toxin, tetX

Quantity:

50 µg

Concentration:

1.0 mg/ml

Background:

Tetanus toxin acts by inhibiting neurotransmitter release. It binds to peripheral neuronal synapses, is internalized and moves by retrograde transport up the axon into the spinal cord where it can move between postsynaptic and presynaptic neurons. It inhibits neurotransmitter release by acting as a zinc endopeptidase that catalyzes the hydrolysis of the 76-Gln-I-Phe-77 bond of synaptobrevin-2. The precursor polypeptide is subsequently cleaved to yield subchains L and H. These remain linked by a disulfide bridge and are non-toxic after separation.

Uniprot ID:[P04958](#)**NCBI:**[NP_783831.1](#)**GeneID:**[24255210](#)**Format:****State:** Liquid purified synthetic peptide without preservatives or stabilizers.**Preparation:** Solid Phase Synthesis.**Preservatives:** None**Stabilizers:** None**Applications:****ELISA.**

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description:

BP1072CP is a 15 amino acid peptide corresponding to amino acid residues 1300-1314 located at the C-terminus of the *Clostridium tetani* Tetanus toxin heavy chain according to entrez protein accession number CAA28033.

AA Sequence:

CDWYFVPTDEGWTND

Storage:

Store the product undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Shelf life: six month from despatch.

General Readings:

1. Eisel U, Jarausch W, Goretzki K, Henschen A, Engels J, Weller U, et al. Tetanus toxin: primary structure, expression in *E. coli*, and homology with botulinum toxins. EMBO J. 1986 Oct;5(10):2495-502. PubMed PMID: 3536478.