

Tetanus toxin Protein, Clostridium tetani, Recombinant (B2M & His)

General Information

Synonyms: Tentoxylisin; Tetanus toxin; tetX

Protein Construction: 2-457 aa

Species: Clostridium tetani

Expression Host: E. coli

Accession: P04958

Molecular Weight: 66.3 kDa (predicted)

AA Sequence: PITINNFVSDPVNNDTIIMMEPPYCKGLDIYYKAFKITDRIWIVPERYEFGTKPEDFNPPSSLIEGASEYYDPNY
LRTSDSKDRFLQTMVKLFNRKNNVAGEALLDKIINAIPYLGNSYLLDKFDNNSVSVFNLLLEQDPSGATTKS
AMLTNLIIFGPGPVLNKNEVRGIVLRVDNKNYFPCRDGFGSIMQMAFCPEYVPTFDNVIENTSLTIGKSKYFQD
PALLMHLEIHLVHLGLYGMQVSSHEIIPSKQEIMQHTYPIAEELFTGGQDANLISIDIKNDLYEKLNDYKAI
ANKLSQVTSCNDPNIDIDSYKQIQKYQFDKDSNGQYIVNEDKFQILYNSIMYGFTEIELGKGFNIKTRLSYFS
MNHDPVKIPNLLDDTIYNDTEGFNIESKDLKSEYKQNMVRVNTNAFRNVDGSGLVSKLIGLCKKIIPPTNIREN
LYNRTA

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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-|-Phe-77' bond of synaptobrevin-2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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