

Vibrio cholerae serotype O1 (strain ATCC 39315 / El Tor Inaba N16961) Cholera enterotoxin subunit B Protein, His Tag (MALS verified)

Catalog # GHB-V52H3



BIOSYSTEMS
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Source

Vibrio cholerae serotype O1 Cholera enterotoxin subunit B, His Tag(GHB-V52H3) is expressed from human 293 cells (HEK293). It contains AA Thr 22 - Asn 124 (Accession # [P01556](#)).

Predicted N-terminus: Thr 22

Molecular Characterization

CE subunit B (Thr 22 - Asn 124)
P01556 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 13.5 kDa. The protein migrates as 16-17 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

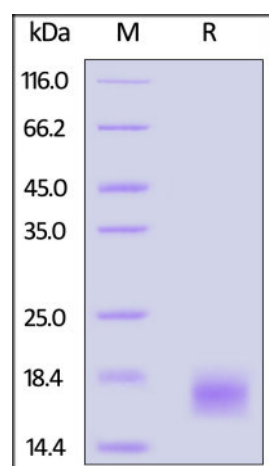
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

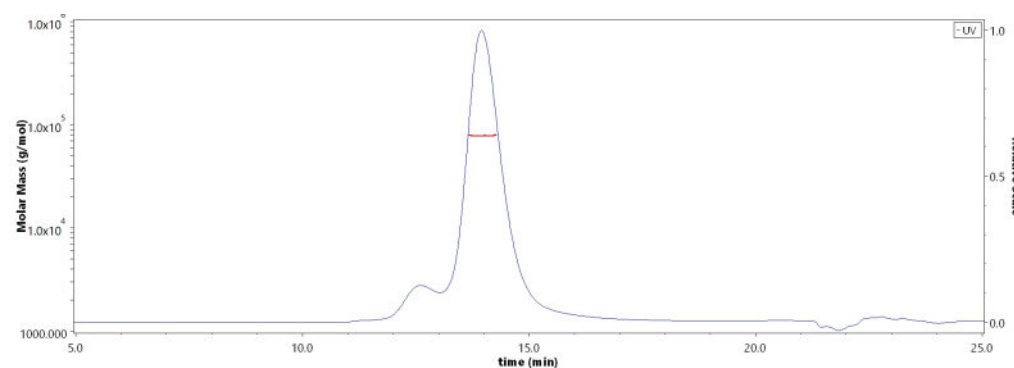
SDS-PAGE



Vibrio cholerae serotype O1 Cholera enterotoxin subunit B, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

SEC-MALS



The purity of Vibrio cholerae serotype O1 Cholera enterotoxin subunit B, His Tag (Cat. No. GHB-V52H3) is more than 85% and the molecular weight of this protein is around 73-83 kDa verified by SEC-MALS.

[Report](#)

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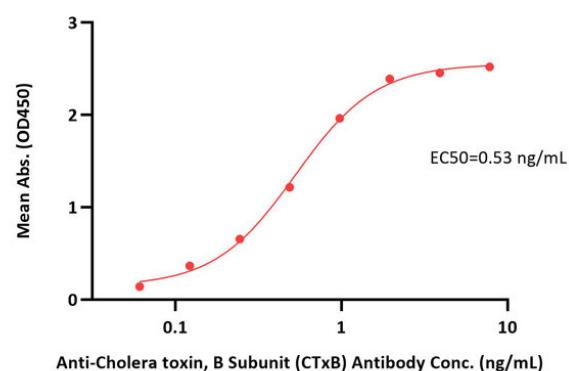
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BIOSYSTEMS
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Vibrio cholerae serotype O1 (strain ATCC 39315 / El Tor Inaba N16961) Cholera enterotoxin subunit B, His Tag ELISA
0.1 µg of Vibrio cholerae serotype O1 (strain ATCC 39315 / El Tor Inaba N16961) Cholera enterotoxin subunit B, His Tag per well



Immobilized Vibrio cholerae serotype O1 (strain ATCC 39315 / El Tor Inaba N16961) Cholera enterotoxin subunit B, His Tag (Cat. No. GHB-V52H3) at 1 µg/mL (100 µL/well) can bind Anti-Cholera toxin, B Subunit (CTxB) Antibody with a linear range of 0.1-2 ng/mL (QC tested).

Background

Cholera toxin is protein complex secreted by the bacterium Vibrio cholerae. It is responsible for the massive, watery diarrhea characteristic of cholera infection. The B subunit of cholera toxin (CtxB) binds to a GM1-ganglioside receptor, a ubiquitous glycolipid cell surface receptor. This binding is widely accepted to initiate toxin action by triggering uptake and delivery of the toxin A subunit into cells. The beta chain has no toxic activity by itself. The holotoxin consists of a pentameric ring of B subunits whose central pore is occupied by the A subunit. The A subunit contains two chains, A1 and A2, linked by a disulfide bridge.

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