

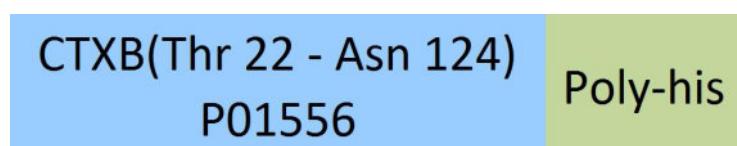
Synonym

CTXB, TOXB

Source

Vibrio cholerae serotype O1 CTXB, His Tag (CTB-V52E8) is expressed from human 293 cells (HEK293). It contains AA Thr 22 - Asn 124 (Accession # P01556).

Predicted N-terminus: Thr 22

Molecular Characterization

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

The protein has a calculated MW of 13.5 kDa. The protein migrates as 18-22 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.

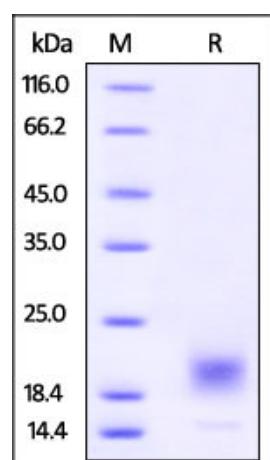
Storage

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 CTXB, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Cholera enterotoxin subunit B (CTXB) is also known as cholera enterotoxin B chain, cholera enterotoxin gamma chain and choleraenterotoxin. Vibrio cholerae O1 exists as two major serotypes, Inaba and Ogawa, which are associated with the O antigen of the lipopolysaccharide and are capable of unequal reciprocal interconversion. The B subunit pentameric ring directs the A subunit to its target by binding to the GM1 gangliosides present on the surface of the intestinal epithelial cells. CTXB can bind five GM1 gangliosides. Also, it has no toxic activity by itself.

References

- (1) [Lockman H, et al., 1983, J. Biol. Chem. 258:13722-13726.](#)
- (2) [Fujinaga Y, et al., 2003, Mol. Biol. Cell 14:4783-4793.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.