



# Recombinant Protein Technical Manual

## Recombinant *Vibrio cholerae* Toxin B Protein

RPES4147

### Product Data:

**Product SKU:** RPES4147

**Size:** 10µg

**Species:** *Vibrio cholerae*

**Expression host:** *E. coli*

**Uniprot:** P01556

### Protein Information:

**Molecular Mass:** 11.8 kDa

**AP Molecular Mass:** 11 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 50mM Tris, 200mM NaCl, pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Cholera enterotoxin subunit B; Cholera enterotoxin B chain; Cholera enterotoxin gamma chain; Choleragenoid; ctxB; toxB

## Immunogen Information:

**Sequence:** Thr22-Asn124

## Background:

Cholera toxin is protein complex secreted by the bacterium *Vibrio cholerae*. It is responsible for the massive, watery diarrhea characteristic of cholera infection. Cholera enterotoxin subunit B (CTXB) pentameric ring directs the A subunit to its target by binding to the GM1 gangliosides present on the surface of the intestinal epithelial cells. It can bind five GM1 gangliosides. It has no toxic activity by itself.