9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

ctxB

Cholera Toxin B subunit Recombinant
RCP0588

Product Overview

Name	ctxB
Description	
Cholera Toxin B subunit Recombinant	
Accession (Primary)	P01556
Synonyms	
Cholera enterotoxin subunit B, Cholera enterotoxin B chain, Cholera enterotoxin gamma chain, Choleragenoid, ctxB, toxB.	
Introduction	
Cholera Toxin B subunit (ctxB) Cholera is a protein complex secreted by the bacterium Vibrio cholerae. ctxB is responsible for the massive, watery diarrhea characteristic of cholera infection. The cholera toxin is an oligomeric complex made up of 6 protein subunits: a single copy of the A subunit and5 copies of the B subunit, denoted as AB5. Subunit B binds while subunit A activates the G protein which activates adenylate cyclase. The five B subunits form a five-membered ring. The A subunit has 2 important segments. The A1 portion of the chain (CTA1) is a globular enzyme payload that ADP-ribosylates G proteins, while the A2 chain (CTA2) forms an extended alpha helix which sits snugly in the central pore of the B subunit ring.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
ctxB is supplied as a 0.2 µm filtered solution conteining 5mM PB, pH 7.0, 75mM NaCl, and 50 % glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
TPQNITDLCA EYHNTQIYTL NDKIFSYTES LAGKREMAII TFKNGAIFQV EVPGSQHIDS QKKAIERMKD	

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TLRIAYLTEA KVEKLCVWNN KTPHAIAAIS MAN.

Precautions

ctxB is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01556)