

Diphtheria toxin Protein

Cat.No:DTD01

DESCRIPTION

Name	Diphtheria toxin, Corynephage beta					
Purity	>95% by SDS-PAGE					
Expression System	E.coli					
molecular weight	43 kDa					
Endotoxin	<1EU/µg					
Label	C-His					
Physical Appearance	Transparent colorless solution/freeze-dried powder					
Buffer	1×PBS, pH7.4					
Reconstitution	Add 1.00ml of sterile deionized water to dissolve and gently shake until completel dissolved					
Transportation conditions	Recombinant proteins are transported in freeze-dried powder form and in ice packs a low temperatures,Large packaged recombinant protein in frozen liquid form transported on dry ice					
Stability &	Freeze dried powder can be stored at 4°C for three years.Used within 2-4 weeks after					
Storage	reconstitution, can be stored at 4°C for 3 years at -20°C					
	MGADDVVDSS KSFVMENFSS YHGTKPGYVD SIQKGIQKPK SGTQGNYDDE					
	WKGFYSTDNK HDAAGYSVDN ENPLSGKAGG VVKVTYPGLT KVLALKVDNA					
	ETIKKELGLS LTEPLMEQVG TEEFIKRFGD GASRVVLSLP FAEGSSSVEY					
Protein	INNWEQAKAL SVELEINFET RGKRGQDAKY EYMAQACAGN RVRRSVGSSL					
sequence	SCINLDWDVI RDKTKTKIES LKEHGPIKNK MSESPNKTVS EEKAKQYLE					
	FHQTALEHPE LSELKTVTGT NPVFAGANYA AWAVNVAQVI DSETADNLEK					
	TTAALSILPG IGSVMGIADG AVHHNTEEIV AQSIALSSLM VAQAIPLVGE					
	LVDIGFAAYN FVESIINLFQ VVHNSYNRPA YSPGHKTQPF LHHHHHH					
	KDa M 1 2 180 120 80 65					

SDS-PAGE



	kDa 120	M	1	
Western Blot	80 65 50 40 30 20			Lane 1: Diphtheria toxin protein (1.00µg) M: Western Blot Marker Using Anti-His antibody
		Wester	n Blot	

Diphtheria toxin is an exotoxin released by Corynebacterium diphtheriae, which has toxic molecules and is the main pathogenic substance causing diphtheria disease. There are three structural regions: the N-terminus is the catalytic region, the middle is the transmembrane region, and the C-terminus is the receptor binding region. Under the action of trypsin, diphtheria toxin is degraded into A fragment and B fragment. DTA is the enzyme active region of diphtheria toxin and a key structural domain of DT type immunotoxins, which inhibits protein synthesis by catalyzing ADP ribosylation on Background: chain elongation factor 2. However, Escherichia coli chain elongation factor G is not affected by this, so some diphtheria expression plasmids based on DTA fragments can be amplified in engineered bacteria. DTA protein and its monoclonal antibodies have important value in the study of the toxicity mechanism, detection, and purification of immunotoxins. At the same time, by utilizing its characteristic of producing specific immunity, it can be used to make targeted drugs. In early anti infection treatment, toxoid vaccines made from diphtheria toxin can be used for the prevention of the disease.

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