

Native Diphtheria Toxin CRM197, Mutant [Glu52]

Cat. No. CRM197-190 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRM197 was expressed in <i>Corynebacterium diphtheriae</i> , and purified by state-of-art protein purification method such as centrifugation, ammonium sulfate precipitation and chromatography, then lyophilized after addition of sucrose. Moisture: <3% by Karl-Fisher
Species	<i>Corynebacterium diphtheriae</i>
Source	<i>Corynebacterium diphtheriae</i>
Description	The Glu52 diphtheria toxin, also known as CRM197 (Cross-reactive materials 197), is a nontoxic mutant of diphtheria toxin, has a mutation in fragment A (a glycine to glutamic acid substitution at position 52) that results in the complete loss of enzymatic activity.
Form	Lyophilized powder (liquid also could be provided)
Molecular Mass	~58 kDa
Sterility	Inoculation/membrane filtration
Endotoxin	<10 EU/μg of protein by LAL method.
Purity	> 90% by SDS-PAGE and HPLC
Storage	Store at -20 centigrade.

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Concentration 1~20mg/ml(aq) by BCA or Lowry

Reconstitution

Before lyophilization, CRM197(aq) was about 5mg/ml in sterile water with 5% sucrose. Vials containing appoximately 5mL of CRM197(aq) were lyophilized. The lyophilized powder can be reconstituted with water or sodium phosphate buffer. We could provide liquid or lyophilized powder.

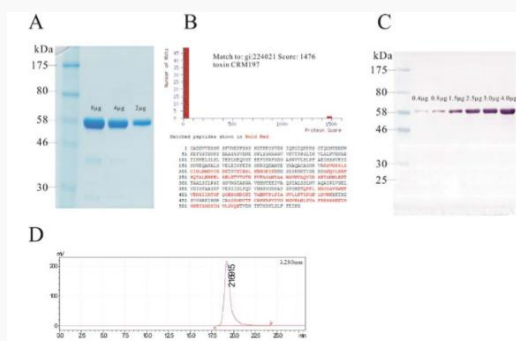


Fig 1 A. Purity analysis of CRM197 by SDS PAGE (10%); B. Identity test of CRM197 by mass spectrometry, Mascot score histogram(top), sequence coverage (bottom); C. Identity test of CRM197 by western blotting; D. Purity analysis of CRM197 by HPLC.

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