Reagent Grade CRM197

Background

CRM197 is a non-toxic mutant of diphtheria toxin[1,2] having a single amino acid substitution of glutamic acid for glycine. CRM197 is a well defined protein and functions as a carrier for polysaccharides and haptens making them immunogenic. It is utilized as a carrier protein in a number of approved conjugate vaccines for diseases such as meningitis and pneumococcal bacterial infections.

Pfenex CRM197 is a recombinant form expressed in *Pseudomonas fluorescens* using the *Pf*ēnex Expression Technology™ platform.

Description

Source: *Pseudomonas fluorescens* expressed recombinant CRM197

Product Molecular Mass: 58.4 kDa

Specifications

Purity:	> 95% CRM197 by SDS-PAGE A and B chain content < 5% of total CRM197
Endotoxin:	< 100 EU/mg of protein by LAL method
Dimer:	< 5%

Storage and use

CRM197 is lyophilized from a 0.2 μm-filtered solution containing 2 mg/mL CRM197, 50 mg/mL sucrose, 0.22 mg/mL sodium phosphate monobasic, 3 mg/mL sodium phosphate dibasic, 0.055 mg/mL polysorbate 80.

Store at 2-8°C upon receipt

Before use, aseptically reconstitute lyophilized CRM197 with sterile deionized water to a concentration of 4 mg/mL CRM197. Reconstituted CRM197 should be stored at 2-8°C.

References

1. Giannini, G., Rappuoli, R., and Ratti, G. *Nucleic Acids Res.* 12: 4063-4069 (1984)
2. Mekada, E., and Uchida, T. *J. Biol. Chem.* 260: 12148-12153 (1985)

Reagent Grade product is for RESEARCH USE ONLY and NOT FOR HUMAN USE.

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Version 3.0 July 2019