Data Sheet

Research-Grade CRM197

Background

CRM197 is a non-toxic mutant of diphtheria toxin[1,2] having a single amino acid substitution of glycine with glutamic acid. CRM197 is a well-defined protein and functions as a carrier for polysaccharides and haptens making them more 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 *Pfēnex* Expression Technology™ platform.

Description

Source: *Pseudomonas fluorescens*
Product Molecular Mass: 58.4 kDa
Key Specifications:

Purity:	> 95% CRM197 by RP-HPLC
Endotoxin:	< 100 EU/mg of protein
Dimers and HMW impurities:	< 5% by SE-HPLC

Composition	**1 mg/Vial Lyophilized**	**20 mg/Vial Lyophilized**	**20 mg/Vial Frozen**
Total CRM197 per vial	1 mg	20 mg	20 mg
Reconstitution volume/vial	0.5 mL	5 mL	---
Fill volume/vial	---	---	0.8 mL
Sucrose	5 %	5 %	---
Sodium phosphate buffer pH 7.4	10 mM	10 mM	10 mM
Sodium potassium phosphate buffer	---	---	40 mM
Polysorbate-80	0.005%	0.005%	0.025%

Storage and use

Lyophilized material: Store at 2-8 °C upon receipt. Before use, aseptically reconstitute lyophilized CRM197 with sterile deionized water. Reconstituted CRM197 should be stored at 2-8 °C.
Frozen material: Store at -60 °C upon receipt.

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.