

# EcoCRM197 Diphtheria Toxin Mutant Vaccine Carrier Protein

Catalog No: tcip3045



## Available Sizes

**Size:** 1mg



## Specifications

### Application:

ELISA, WB

### Research Area:

Virology

### Form:

Frozen Liquid

### Concentration:

1mg/ml in 1X PBS, pH 7.6, 10% glycerol.; Endotoxin: 0.16 EU/μg

### Purity / Grade:

N/A

### Storage Instruction:

2-3 weeks at -20°C, long term It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles

### Relevance:

CRM 197 is widely used as the carrier protein for conjugate vaccines. Vaccines for Haemophilus influenzae b, meningococcal disease and Streptococcus pneumoniae use CRM 197; Unlike toxoids, CRM 197 has its full complement of lysines available for conjugation. It is also thought to cause less interference in multivalent vaccines. EcoCRM™ is stable in PBS.

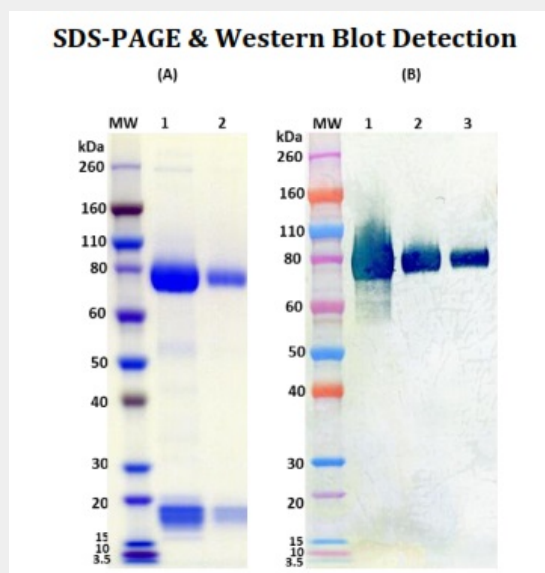
## Product Description

EcoCRM™ is CRM 197 produced as a soluble intracellular protein in E. coli. CRM 197 is genetically detoxified diphtheria toxin.

Specifically, it has a single amino acid substitution (glycine52 to glutamic acid), which causes the ADPribosyltransferase activity to be lost. CRM 197 is widely used as the carrier protein for conjugate vaccines. EcoCRM™ is expressed as a recombinant protein in Escherichia coli. ;

The theoretical molecular weight of the protein is 58.4 kDa.;

Supplied by: Fina Biosolutions LLC



The theoretical molecular weight of the protein is ~68 kDa including the His-tag, without glycosylation. (A) SDS-PAGE and stain demonstrating 5 µg and 1 µg (lanes 1, 2 respectively) of EBOV rGPΔTM His-tag protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein marker. (B) Western blot detection of EBOV rGPΔTM at 500 ng, 100 ng and 50 ng (lanes 1-3, respectively) using rabbit anti-EBOV GP @ polyclonal antibody (catalog# tcia135) at 0.5µg/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.

ELISA Data	
EBOV rGPΔTM ng/well	OD 650 nm
800.000	3.838
400.000	3.836
200.000	3.893
100.000	3.847
50.000	3.812
25.000	3.734
12.500	3.602
6.250	3.274
3.125	2.855
1.563	2.140
0.781	1.359
0.391	0.821

Plate was coated with EBOV rGPΔTM starting at 800 ng/well, serially diluted in DPBS. Washed plate was detected using one dilution of a positive control serum, followed with anti-IgG HRP conjugate and TMB substrate. OD 650 is reported. Background of EBOV rGPΔTM coated plate positive control serum was 0.073 OD650.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!