

EcoCRM™
Diphtheria Toxin CRM₁₉₇ Mutant
Vaccine Carrier Protein

Catalog #: 1601-001

Lot #: N09p157

Description: EcoCRM™ is CRM₁₉₇ produced as a soluble intracellular protein in *E. coli*. CRM₁₉₇ is genetically detoxified diphtheria toxin. Specifically, it has a single amino acid substitution (glycine52 to glutamic acid), which causes the ADP-ribosyltransferase activity to be lost. CRM₁₉₇ is widely used as the carrier protein for conjugate vaccines. EcoCRM™ is expressed as a recombinant protein in *Escherichia coli*.

Supplied by: Fina Biosolutions LLC

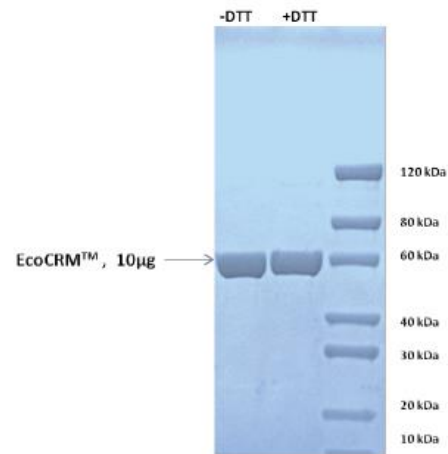
Size: 1 mg of protein is supplied at a concentration of 1.0 mg/mL (by absorbance at 280 nm) in 1X PBS, pH 7.6, 10% glycerol. The theoretical molecular weight of the protein is 58.4 kDa.

Purity: >95% by HPLC
OD₂₆₀/OD₂₈₀ = 0.57 (< 1.0, the protein is free from nucleic acid contaminant)

Endotoxin: 0.16 EU/μg

Storage: -80°C, avoid repeated freeze/thaws.

SDS-PAGE:



A single band at approximately 58 kDa is visible under both reduced and non-reduced conditions.

Relevance: CRM₁₉₇ is widely used as the carrier protein for conjugate vaccines. Vaccines for *Haemophilus influenzae b*, meningococcal disease and *Streptococcus pneumoniae* use CRM₁₉₇. Unlike toxoids, CRM₁₉₇ 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.

For additional products, please visit:
<http://www.ibtbioservices.com/reagents/>

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