

## Certificate of Analysis

**Name:** Diphtheria Toxin, CRM197 Mutant

**Product code:** REC31800-200 / REC31800-500

**Batch #:**

**Date of Manufacture:**

**Description:** CRM197 is a genetically detoxified diphtheria toxin (CAS Number: 92092-36-9). It is expressed as a soluble, correctly folded ~58kDa recombinant protein in the cytoplasm of E. coli and then produced to >99% purity.

**Amount:** 200µg / 500µg

**Concentration:** mg/ml

**Purity:** >99% purity, <1% dimer by SEC HPLC

**Endotoxin:** <10 EU/mg

**Presentation:** Liquid

**Buffer:** 20mM HEPES, 5% Sucrose, 0.0055% Tween 80, pH8.0

### Usage guidelines

**Long-Term Storage:** -80°C

**Short-Term Storage:** Sterile at +4°C

**Stability:** Not determined

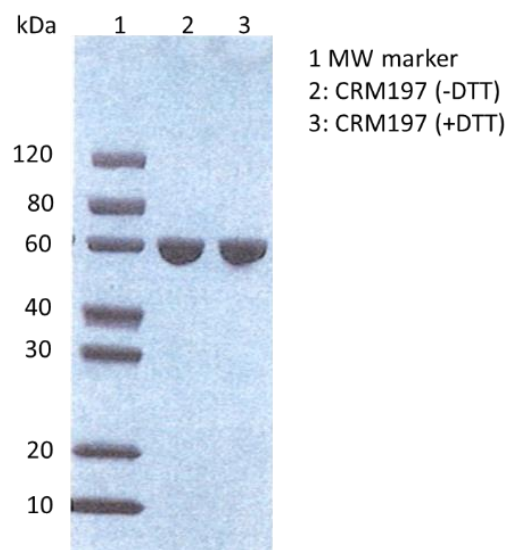
**Freezing:** Can be frozen, but avoid repeated freeze-thaw cycles.

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QC

X

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QA

**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**