

# Streptococcus pyogenes M1 CRISPR-Cas9 Protein (His Tag)

Catalog Number: 40572-A08B



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CRISPR-Cas9

### Protein Construction:

A DNA sequence encoding the *S. pyogenes* serotype M1 cas9 (WP\_010922251.1) (Met1-Asp1368) was expressed with a nuclear localization sequence (NLS) at the N-terminus, two NLSs and a polyhistidine tag at the C-terminus.

**Source:** Streptococcus pyogenes M1

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE.

### Bio-activity:

1  $\mu$ g = 5 U

1 U is defined as cutting 1  $\mu$ g 1 KB dsDNA in 30 min at 37°C

### Endotoxin:

< 1.0 EU per  $\mu$ g protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant *S. pyogenes* serotype M1 cas9 consists of 1407 amino acids and predicts a molecular mass of 163 kDa.

### Formulation:

Supplied as 20 mM Tris, 300 mM NaCl, 50 % glycerol, pH 8.0, 0.5 mM PMSF, 0.1 mM EDTA, 0.5 mM TCEP.

## Usage Guide

### Storage:

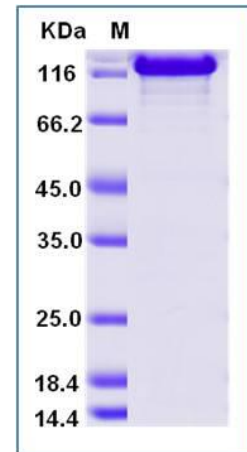
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



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