

## GMP Recombinant Streptococcus pyogenes Cas9 protein(Asp2-Asp1368)

Cat. No. Cas9-21S    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Streptococcus pyogenes Cas9(Asp2-Asp1368)(Q99ZW2) was expressed in E. coli, in an animal component free process under cGMP guidelines.                                          |
| <b>Species</b>          | Streptococcus pyogenes                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 2-1368 aa                                                                                                                                                                                   |
| <b>Form</b>             | Lyophilized from 30 mM Tris-HCl, 300 mM NaCl, 0.1 mM EDTA, 50% Glycerol, pH 7.4.                                                                                                            |
| <b>Bio-activity</b>     | Three batches of Cas9 Nuclease cleaved substrate DNA standards in vitro. Results show that the cleavage activity are similar across all batches, indicating stable activity across batches. |
| <b>Molecular Mass</b>   | The protein has a predicted MW of 163 kDa.                                                                                                                                                  |
| <b>Endotoxin</b>        | ≤10 EU/mg                                                                                                                                                                                   |
| <b>Purity</b>           | ≥95% by SEC-HPLC; ≥95% by RP-HPLC                                                                                                                                                           |
| <b>Storage</b>          | Store at -20 ± 5°C. Avoid repeat freeze-thaw cycles.                                                                                                                                        |

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## Reconstitution

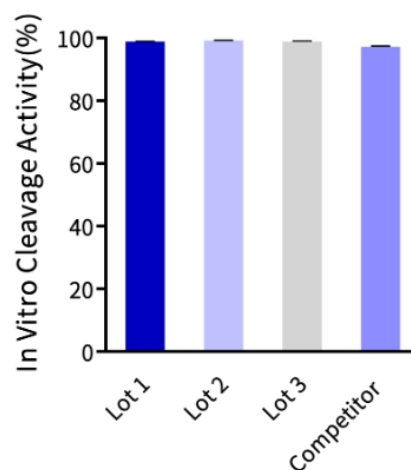
It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

### Synonyms

Cas9

### In vitro cleavage activity

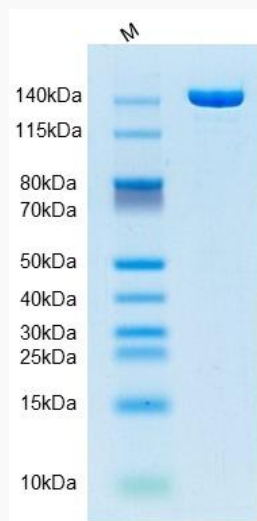


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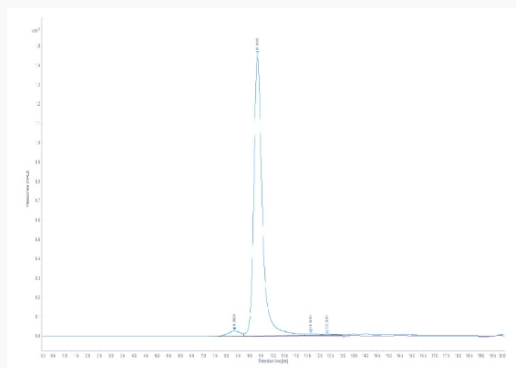
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## SDS-PAGE



## SEC-HPLC

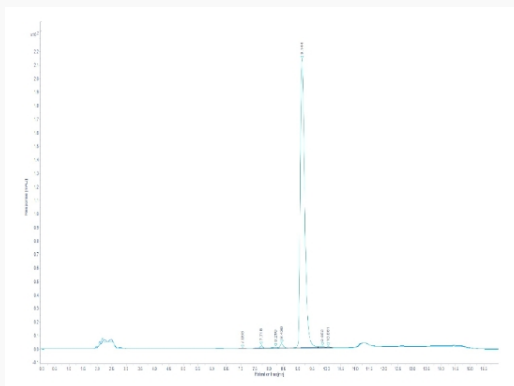


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## RP-HPLC



## Gene knockout efficiency

