

## 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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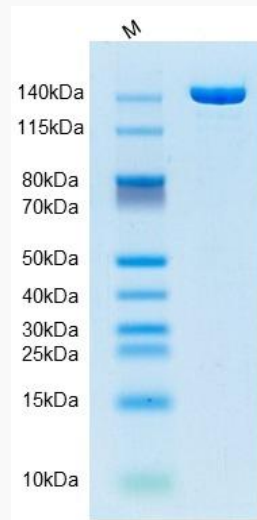
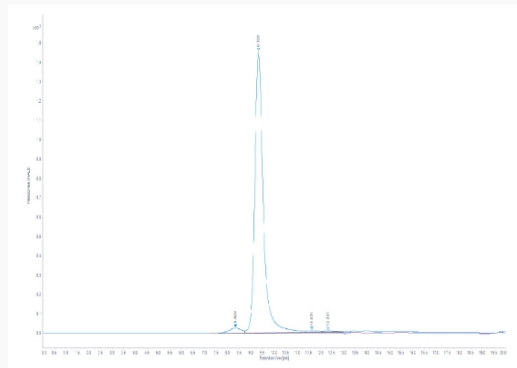
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**Reconstitution**

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

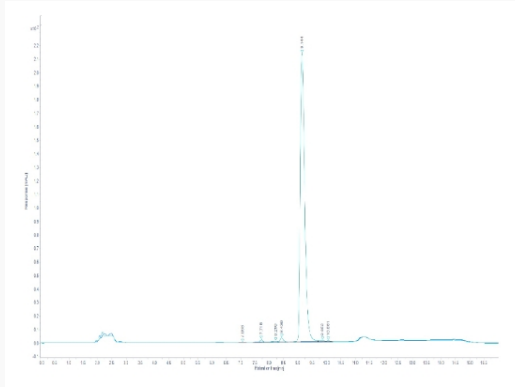
**SDS-PAGE****SEC-HPLC**

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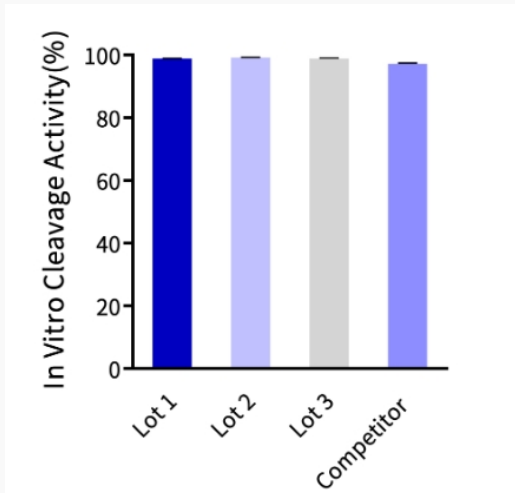
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**RP-HPLC**



**In vitro cleavage activity**

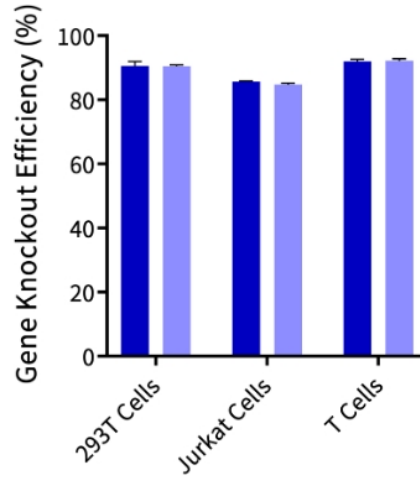



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**Gene knockout efficiency**



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