

GMP Recombinant Streptococcus pyogenes Cas9 protein(Asp2-Asp1368)

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

SPECIFICATION

Product Overview	Recombinant Streptococcus pyogenes Cas9(Asp2-Asp1368)(Q99ZW2) was expressed in E. coli, in an animal component free process under cGMP guidelines.
Species	Streptococcus pyogenes
Source	E.coli
ProteinLength	2-1368 aa
Form	Lyophilized from 30 mM Tris-HCl, 300 mM NaCl, 0.1 mM EDTA, 50% Glycerol, pH 7.4.
Bio-activity	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.
Molecular Mass	The protein has a predicted MW of 163 kDa.
Endotoxin	≤10 EU/mg
Purity	≥95% by SEC-HPLC; ≥95% by RP-HPLC
Storage	Store at -20 ± 5°C. Avoid repeat freeze-thaw cycles.

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Reconstitution

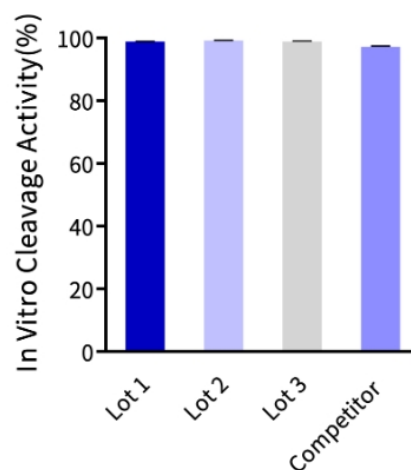
It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Synonyms

Cas9

In vitro cleavage activity

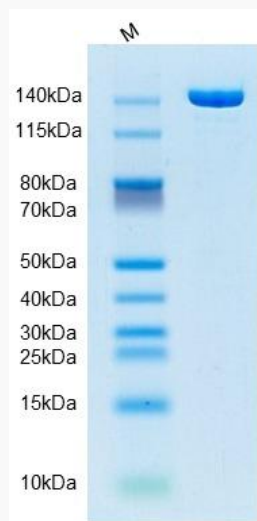


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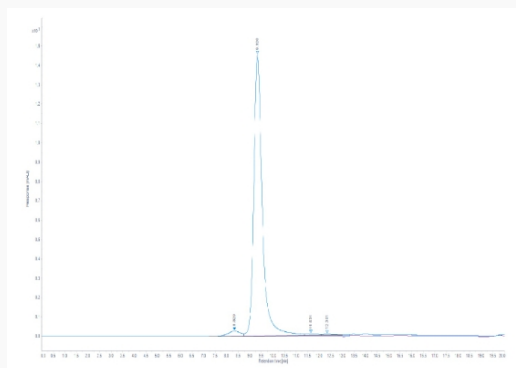
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SDS-PAGE



SEC-HPLC

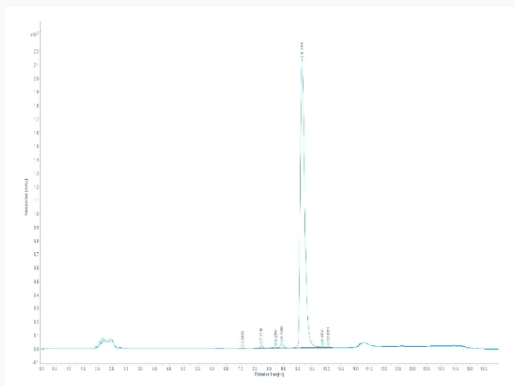


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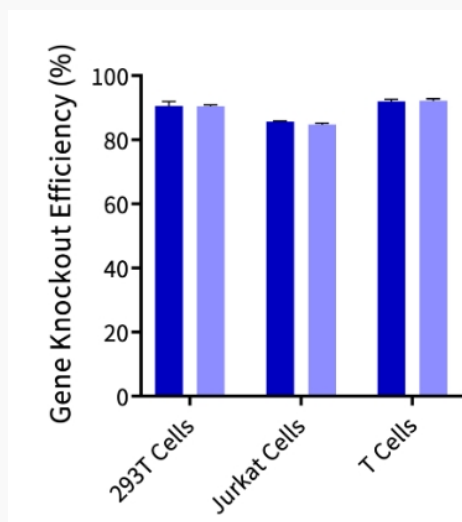
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RP-HPLC



Gene knockout efficiency



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