Recombinant S. pyogenes Cas9 Protein, His-tagged

Cat. No. Cas9-06S **Lot. No.** (See product label)

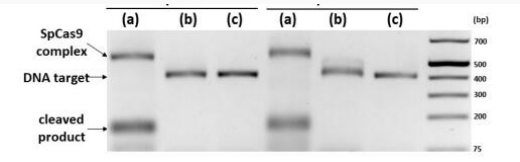
SPECIFICATION

Product Overview	Recombinant full length Cas9-NLS from S. pyogenes was expressed in E. coli using a C-terminal His tag. Cas9-NLS contains a nuclear localization sequence for optimal activity.
Species	S.pyogenes
Source	E.coli
Description	In bacteria and archaea CRISPR- Cas systems provide sequence based adaptive immunity against mobile genetic elements such as phages and plasmids. Cas9 is a multidomain nuclease from the bacterium S. pyogenes characteristic of type II CRISPR- Cas systems. Using single guide RNA (sgRNA), Cas9 is targeted to specific genomic loci where it generates a blunt ended double strand beak. Cas9 can be used for genetic engineering experiments such as genome editing and generating transgenic models.
Molecular Mass	Observed MW: ~160 kDa Calculated MW: ~161 kDa
Purity	>70%
Stability	One year at -70 centigrade from deta of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most

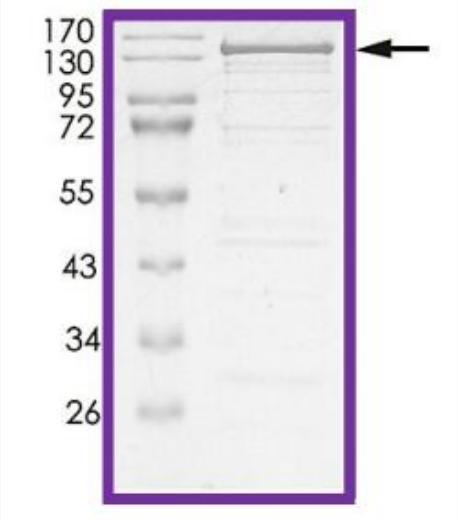
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	favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Always include RNase inhibitor at manufacturer recommended concentrations in Cas enzyme reactions.
Concentration	0.1 μg/μL 6.26 pmol/μg
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.5, 300mM NaCl, 150mM imidazole, 1mM DTT, 10% glycerol.
Shipping	On dry ice.
Full Length	Full L.

GENE INFORMATION

Official Symbol	Cas9
Synonyms	Csn1; Csx12; Spy_1046; SpyCas9
Protein Refseq	AAK33936
UniProt ID	Q99ZW2
Activity	

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Purity	

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