

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 <i>S. pyogenes</i> was expressed in <i>E. coli</i> using a C-terminal His tag. Cas9-NLS contains a nuclear localization sequence for optimal activity.
Species	<i>S.pyogenes</i>
Source	<i>E.coli</i>
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 <i>S. pyogenes</i> 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 break. 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 date 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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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

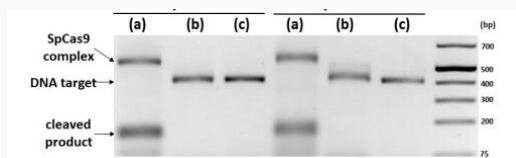
Official Symbol
Cas9

Synonyms
Csn1; Csx12; Spy_1046; SpyCas9

Protein Refseq
[AAK33936](#)

UniProt ID
[Q99ZW2](#)

Activity

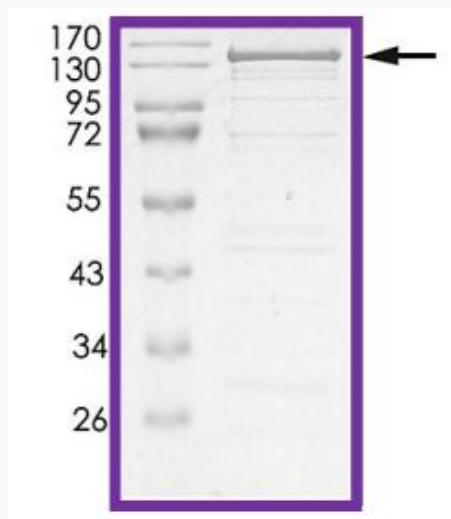


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Purity



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