

Recombinant *S. pyogenes* Cas9 (H840A) Protein, His-tagged

Cat. No. Cas9-05S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length SpCas9 (H840A)-NLS from <i>S. pyogenes</i> was expressed in <i>E. coli</i> using a C-terminal His tag.
Species	<i>S.pyogenes</i>
Source	<i>E.coli</i>
Description	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. SpCas9 (H840A)-NLS is a catalytic mutant of Cas9 containing a nuclear localization sequence for optimal activity. Unlike wild type Cas9, SpCas9(H840A)-NLS generates a single strand DNA break on the non-targeting strand. SpCas9 (H840A)-NLS can be used for various genome editing applications.
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 favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Always include RNase inhibitor at manufacturer recommended concentrations in Cas enzyme reactions.

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

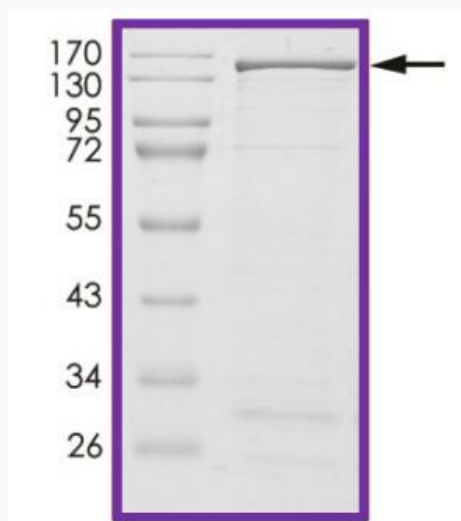
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Concentration	0.2 µg/µL 6.26 pmol/µg
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.5, 300mM NaCl, 200mM imidazole, 1mM DTT, 10% glycerol.
Shipping	On dry ice.
Full Length	Full L.
GENE INFORMATION	
Official Symbol	Cas9
Synonyms	Cas9; Csn1; Spy_1046; Cas9-H840A Nickase
Protein Refseq	AAK33936
UniProt ID	Q99ZW2

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Purity



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