

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length SpCas9 (H840A)-NLS from <i>S. pyogenes</i> was expressed in <i>E. coli</i> using a C-terminal His tag.
<b>Species</b>	<i>S.pyogenes</i>
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	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.
<b>Purity</b>	>70%
<b>Stability</b>	One year at -70 centigrade from date of shipment.
<b>Storage</b>	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.

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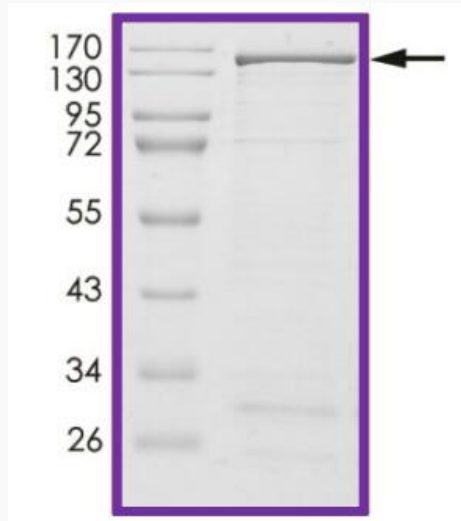
<b>Concentration</b>	0.2 µg/µL 6.26 pmol/µg
<b>Storage Buffer</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.5, 300mM NaCl, 200mM imidazole, 1mM DTT, 10% glycerol.
<b>Shipping</b>	On dry ice.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Official Symbol</b>	Cas9
<b>Synonyms</b>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

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Purity



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