

Recombinant *S. pyogenes* Cas9 Protein, His-tagged

Cat. No. Cas9-03S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length <i>S. pyogenes</i> Cas9 was expressed in <i>E. coli</i> with a C-terminal His tag.
Species	<i>S.pyogenes</i>
Source	<i>E.coli</i>
Description	<i>S. pyogenes</i> Cas9 is a type II-A Cas9 protein and is the most used in most current CRISPR-based genetic engineering methodologies. CRISPR RNAs (crRNAs) fused to trans-activating CRISPR RNAs (tracrRNA) direct sequence-specific cleavage by Cas9, introducing double-stranded breaks in cell-invading DNA in bacterial and archaeal CRISPR/Cas9 systems. Cas9 requires the 5'-NGG-3' protospacer adjacent motif (PAM) to destabilize the target DNA. Cas9's HNH endonuclease domain cleaves the strand complementary to the crRNA while its RuvC endonuclease domain cleaves the non-complementary strand.
Molecular Mass	~156 kDa
Purity	>80%
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.

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration 0.5 µg/µL
6.26 pmol/µg

Storage Buffer Recombinant protein stored in 50mM sodium phosphate, pH 8.0, 300mM NaCl, 150mM imidazole, 1mM DTT, 10% glycerol.

Shipping On dry ice.

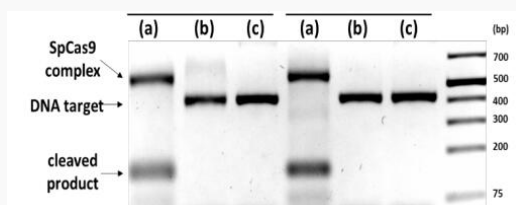
GENE INFORMATION

Official Symbol Cas9

Synonyms Cas9; Csn1; Spy_1046

UniProt ID [X78809](#)

Specific Activity

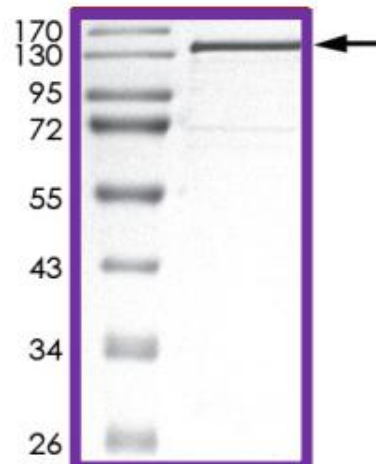


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Purity



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