

Recombinant bacterial Cas9 protein, His-tagged

Cat. No. cas9-85H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant bacterial Cas9 (1367 aa) fused with His Tag at N-terminal and nuclei translocation signal (NTS) was inserted at C-terminal was expressed in E. coli.
Species	Streptococcus pyogenes serotype M1
Source	E.coli
ProteinLength	1367 a.a.
Form	0.4 g/ml, sterile-filtered, in 50 mM Tri-HCl (pH 8.0), with 400 mM NaCl and 20% Glycerol
Molecular Mass	163.7 KD
AA Sequence	<p>MKHHHHHHQEFRSDKKYSIGLDIGTNSVGWAVITDEYKVPSSKFKVLGNTDRHSIKK NLIGALLFDSGETAEATR LKRTARRRYTRRKNRICYLQEIFSNEMAKVDDSSFFHRLE ESFLVEEDKKHERHPIFGNIVDEVAYHEKYPTIYHL RKKLVDSTDKADLRLIYLALAH MIKFRGHFLIEGDLNPDNSDVKLFIQLVQTYNQLFEENPINASGVDAKAILS ARLSK SRRLENLIAQLPGEKKNLFGNLIALSLGLTPNFKSNFDLAEDAKLQLSKDTYDDDL NLLAQIGDQYAD LFLAAKNLSDAILLSDILRVNTEITKAPLSASMIKRYDEHHQDLTLL KALVRQQLPEKYKEIFFDQSKNGYAGYI DGGASQEEFYKFIKPILEKMDGTEELLVKL NREDLLRKQRTFDNGSIPHQIHLGELHAILRRQEDFYFPLKDNRE KIEKILTFRIPYYV GPLARGNSRFAWMTRKSEETITPWNFEEVVDKGASAQSFIERMTNFDKNLPNEKVL PKHSL LYEYFTVYNELTKVKYVTEGMRKPAFLSGEQKKAIVDLLFKTNRKVTVKQLK EDYFKKIECFDSVEISGVEDRFN ASLGTYHDLLKIKDKDFLDNEENEDILEDIVLTLTL</p>

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

FEDREMIEERLKTYAHLFDDKVMKQLKRRRYTGWGRLS RKLINGIRDKQSGKTILDF
 LKSDGFANRNFMQLIHDDSLTFKEDIQKAQVSGQGDSLHEHIANLAGSPAIKKGIL QT
 VKVVDDELVKVMGRHKPENIVIAMARENQTTQKGQKNSRERMKRIEEGIKELGSQILK
 EHPVENTQLQNEKLYL YYLQNGRDMYVDQELDINRLSDYDVDHIVPQSFLKDDSID
 NKVLTRSDKNRGKSDNVPSEEVVKKMKNYWRQLLN AKLITQRKFDNLTKAERGGL
 SELDKAGFIKRQLVETRQITKHVAQILDSRMNTKYDENDKLIREVKVITLKSCLV SDFR
 KDFQFYKVVREINNYHHAHDAYLNAVVGTAIIKKYPKLESEFVYGDYKVYDVRKMIK
 SEQEIGKATAKYFF YSNIMNFFKTEITLANGEIRKRPLIETNGETGEIVWDKGRDFAT
 VRKVLSPQVNVKKEVQTGGFSKESILPK RNSDKLIARKKDWDPKKYGGFDSPT
 VAYSVLVVAKVEKGKSKLKSVKELLGITIMERSSFEKNPIDFLEAKGYK EVKCDLIK
 LPKYSLFELENGRKRMLASAGELQKGNELALPSKYVNFYLYLASHYEKLGSPEDNE
 QKQLFVEQHK HYLDEIEQISEFSKRVLADANLDKVL SAYNKHRDKPIREQAENIIHL
 FTLTNLGAPAAFKYFDTTIDRKRYTS TKEVLDTLIHQSIITGLYETRIDLSQLGGDGLY
 ETRIDLSQLGGDSRADPKKKRKY

Endotoxin < 1 EU/ug

Purity >96% by SDS-PAGE

Applications 1. May be used for in vitro Cas9 mediated mammalian cell gene editing study by intracellular delivery this protein with target gene specific gRNA either together as complex or separagely with "ProFectin" reagent.2. Highly purified Cas9 antigen, may be used for specific antibody production.

Storage Keep at -80centigrade for long term storage. Product is stable at 4 centigrade for at least 15 days.

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