

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 Tris-HCl (pH 8.0), with 400 mM NaCl and 20% Glycerol
Molecular Mass	163.7 KD
AA Sequence	MKHHHHHHQEFRSDKKYSIGLDIGTNSVGWAVITDEYKVPSSKKFKVLGNTDRHSIKK NLIGALLFDSGETAEATR LKRTARRRYTRRKNRICYLQEIFSNEMAKVDDSFHRL ESFLVEEDKKHERHPIFGNIVDEVAYHEKYPTIYHL RKKLVDSTDKADLRILIYLAHA MIKFRGHFLIEGDLNPDNSDVKLFQILVQTYNQLFEENPINASGVDAKAILS ARLSK SRRENLIAQLPGEKKNGLFGNLIALSLGLTPNFKSNFDLAEDAKLQLSKDTYDDDL NLLAQIGDQYAD LFLAAKNLSDAILLSDILRVNTEITKAPLSASMIKRYDEHHQDLTLL KALVRQQLPEKYKEIFFDQSKNGYAGYI DGGASQEEFYKFIKPILEKMDGTEELLVKL NREDLLRKQRTFDNGSIPHQIHLGELHAILRRQEDFYFPLKDNRE KIEKILTRIPYYV GPLARGNSRFAWMTRKSEETITPWNFEEVVDKGASAQSFIERMTNFDKNLPNEKVL PKHSL LYEYFTVYNELTKVKYVTEGMRKPAFLSGEQKKAIVDLLFKTNRKVTVKQLK EDYFKKIECFDSVEISGVEDRFN ASLGTYHDLLKIKDKDFLDNEENEDILEDIVLTTL

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FEDREMIEERLKTYAHLFDDKVMKQLKRRRYTGWGRLS RKLINGIRDKQSGKTILDF
 LKSDGFANRNFMQLIHDDSLTFKEDIQKAQVSGQGDSLHEHIANLAGSPAIKKGIL QT
 VKVVDLVKVMGRHKPENIVIAMARENQTTQKGQKNSRERMKRIEEGIKELGSQILK
 EHPVENTQLQNEKLYL YYLQNGRDMYVDQELDINRLSDYDVDHIVPQSFLKDDSID
 NKVLTRSDKNRGKSDNVPSEEVVKMKMKNYWRQLLN AKLITQRKFDNLTKAERGGL
 SELDKAGFIKRQLVETRQITKHVAQILDSRMNTKYDENDKLIREVKVITLKSCLV SDFR
 KDFQFYKVVREINNYHHAHDAYLNAVVGTAIIKKYPKLESEFVYGDYKVYDVRKMIK
 SEQEI GKATAYFF YSNIMNFFKTEITLANGEIRKRPLIETNGETGEIVWDKGRDFAT
 VRKVL SMPQVNIVKKTEVQTGGFSKESILPK RNSDKLIARKKDWDPKKYGGFDSPT
 VAYSVLVVAKEGKSKKLKSVKELLGITIMERSSFEKNPIDFLEAKGYK EVKCDLIK
 LPKYSLFELNGRKRMLASAGELQKGNELALPSKYVNFLYLASHYEKLKGSPEDNE
 QKQLFVEQHK HYLDEIEQISEFSKRVLADANLDKVL SAYNKHDKPIREQAENIIHL
 FTLTNLGAPAAFKYFDTTIDRKRYTS TKEVL DATLIHQ SITGLYETRIDLSQLGGDGLY
 ETRIDLSQLGGDSRADPKKKRKV

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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