

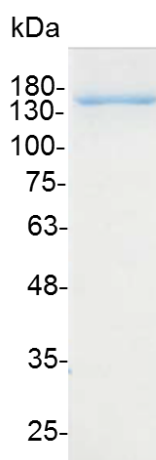
PRODUCT INFORMATION

wtCas9

v. 230301

Catalog number	C12001-100UG / C12001-500UG
Package	100 µg / 500 µg
Description	<p>The wtCas9 is a recombinant <i>Streptococcus pyogenes</i> Cas9 protein (wild type form) purified from <i>E. coli</i>. Cas9 protein can form a very stable ribonucleoprotein (RNP) complex with the guide RNA (gRNA). The RNP complex recognizes the target site by matching gRNA with the genomic DNA sequence and leads to DNA breaks within 3 bases from the NGG PAM (Protospacer Adjacent Motif). With the CRISPR/Cas9 system, researchers can valid gene editing assay in cells or other kinds of animals.</p>
Source	<i>Escherichia coli</i>
Sequence	<p>MDKKYSIGLDIGTNSVGWAVITDEYKVPSSKFKVLGNTDRHSIKKNLIGALLFDS GETAEATRLKRTARRRYTRRKNRICYLQEIFSNEMAKVDDSFHRLSEESFLVEE DKKHERHPIFGNIVDEVAYHEKYPTIYHLRKKLVDSTDKADLRLLYLALAHMIKFR GHFLIEGDLNPDNSDVKLFIQLVQTYNQLFEENPINASGVDAKAILSARLSKSR RLENLIAQLPGEKKNGLFGNLIALSLGLTPNFKSNFDLAEDAKLQLSKDTYDDDL DNLLAQIGDQYADLFLAAKNLSDAILLSDILRVNTEITKAPLSASMIKRYDEHHQD LTLKALVRQQLPEKYKEIFFDQSKNGYAGYIDGGASQEEFYKFIKPILEKMDGT EELLVKNREDLLRKQRTFDNGSIPHQIHLGELHAILRRQEDFYFPLKDNREKIE KILTRIPYYVGPLARGNSRFWMTRKSEETITPWNFEEVVDKGASQAQSIERM TNFDKNLPNEKVLPHKSLLYEYFTVYNELTKVKYVTEGMRKPAFLSGEQKKAIV DLLFKTNRKVTVKQLKEDYFKKIECFDSVEISGVEDRFNASLGTYHDLLKIIKDKD FLDNEENEDILEDIVLTLTLFEDREMIEERLKYAHLFDDKVMKQLRRRYTGW GRLSRKLINGIRDKQSGKTILDFLKSDGFANRNFMQLIHDDSLTFKEDIQKAQVS GQGDSLHEHIANLAGSPAIKKILQTVKVVDELVKVMGRHKPENIVIEMARENQ TTQKGQKNSRERMKRIEIEGKELGSQILKEHPVENTQLQNEKLYLYLQNGRD MYVDQELDINRLSDYDVDHIVPQSFLKDDSIDNKVLTRSDKNRGKSDNVPSEEV VKKMKNYWRQLLNAKLITQRKFDNLTKAERGGSELKAGFIKQRLVETRQITK HVAQILDSRMNTKYDENDKLIREVKVITLKSCLVSDFRKDFQFYKVINNYHHA HDAYLNAVVGTAIKKYPKLESEFVYGDYKVYDVRKMIKSEQEIGKATAKYFFY SNIMNFFKTEITLANGEIRKRPLIETNGETGEIVWDKGRDFATVRKVLSPQVNI VKKTEVQTGGFSKESILPKRNSDKLIARKKDWDPKPYGGFDSPTVAYSVLVVAK VEKGSKLLKSVKELLGITIMERSSEFEKNPIDFLEAKGYKEVKKDLIILPKYSLFE LENGKRMLASAGELQKGNELALPSKYVNFYLYLASHYEKLGSPEDNEQKQLF VEQHKHYLDEIIEQISEFSKRVLADANLDKVL SAYNKHRDKPIREQAENIIHLFTL TNLGAPAAFYFDTTIDRKRYTSTKEVLDATLIHQSI TGLYETRIDLSQLGGD with polyhistidine tag at the C-terminus</p>
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.

Purity	>98% as determined by SDS-PAGE.
Formulation	The protein was lyophilized from a solution containing 1X PBS containing, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Note	Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant wtCas9

For research use only.