

Product datasheet for **TP790148**

Cas9 NC-NLS Streptococcus Pyogenes Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of <i>S. pyogenes</i> Cas9 endonuclease (Cas9) containing Simian virus 40 (SV40) T antigen nuclear localization sequence (NLS) on the N- and C- termini of the protein., with N-terminal HIS tag, expressed in <i>E.coli</i> , sterile-filtered, suitable for cell culture
Species:	Streptococcus Pyogenes
Expression Host:	<i>E. coli</i>
Expression cDNA Clone or AA Sequence:	1 MHHHHHHENL YFQGAIPKKK RKVEDPKKKR KVDIAMDKKY SIGLDIGTNS VGWAVITDEY 61 KVPSKFKVL GNTDRHSIKK NLI GALLFDS GETAEATRLK RTARRRYTRR KNRCYLQEI 121 FSNEMAKVDD SFFHRLEESF LVEEDKKHER HPIFGNIVDE VAYHEKYPTI YHLRKKLVDS 181 TDKADRLIY LALAHMIKFR GHFLIEGDLN PDNSDVKLF IQLVQTYNQL FEENPINASG 241 VDAKAILSAR LSKSRLENL IAQLPGEKKN GLFGNLIALS LGLTPNFKSN FDAEDAQLQ 301 LSKDTYDDDL DNLLAQIGDQ YADFLAAKN LSDAILLSDI LRVNTEITKA PLSASMIKRY 361 DEHHQDLTLL KALVRQQLPE KYKEIFFDQS KNGYAGYIDG GASQEEFYKF IKPILEKMDG 421 TEELLVKLNR EDLLRKQRTF DNGSIPHQIH LGELHAILRR QEDFYPFLKD NREKIEKILT 481 FRIPYYVGPL ARGNSRFAWM TRKSEETITP WNFEEVVDKG ASAQSFIERM TNFDKNLPNE 541 KVLPKHSLLY EYFTVYNELT KVKYVTEGMR KPAFLSGEQK KAIVDLLFKT NRKVTVKQLK 601 EDYFKKIECF DSVEISGVED RFNASLGYH DLLKIIKDKD FLDNEENEDI LEDIVLTLTL 661 FEDREMIEER LKTYAHLFDD KVMKQLKRRR YTGWGRLSRK LINGIRDQKS GKTILDFLKS 721 DGFANRNFMQ LIHDDSLTFK EDIQKAQVSG QGDSLHEHIA NLAGSPAICK GILQTVKVV D 781 ELVKVMGRHK PENIVIEMAR ENQTTQKGQK NSRERMKRIE EGIKELGSQI LKEHPVENTQ 841 LQNEKLYLYY LQNGRDMYVD QELDINRLSD YDVDHIVPQS FLKDDSIDNK VLTRSDKNRG 901 KSDNVPSEEV VKKMKNYWRQ LLNAKLITQR KFDNLTKAER GGLSELDKAG FIKRQLVETR 961 QITKHVAQIL DSRMNTKYDE NDKLIREVKV ITLKSKLVSD FRKDFQFYKV REINNYHHAH 1021 DAYLNAVVG T ALIKKYPKLE SEFVYGDYKV YDVRKMIAKS EQEIGKATAK YFFYSNIMNF 1081 FKTEITLANG EIRKRPLIET NGETGEIWD KGRDFATVRK VLSMPQVNIV KKTEVQTGGF 1141 SKESILPKRN SDKLIARKKD WDPKKG GFD SPTVAYSVLV VAKVEKGKSK KLKSVKELLG 1201 ITIMERSSFE KNPIDFLEAK GYKEVKKDLI IKLPKYSLFE LENGKRMLA SAGELQKGNE 1261 LALPSKYVNF LYLASHYEKL KGSPEDNEQK QLFVEQHKHY LDEIIEQISE FSKRVILADA 1321 NLDKVL SAYN KHRDKPIREQ AENIIHLFTL TNLGAPAAFK YFDTTIDRKR YTSTKEVLDA 1381 TLIHQ SITGL YETRIDLSQL GGDPK KKRKV EDPK KKRKVD TR
Tag:	N-His
Predicted MW:	165.0 kDa



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Concentration: 10 uM

Purity: > 90% as determined by SDS-PAGE and Coomassie blue staining

Buffer: Supplied from sterile 10mM Tris,300mM NaCl,0.1mM EDTA,1mM DTT, pH7.4, 50% glycerol.

Bioactivity: In vitro digestion of a DNA fragment with the recombinant *S.pyrogene* Cas9 nuclease (Cat# TP790148). The input DNA is XmnI-linearized vector (PS100074) was cleaved by with a synthetic sgRNA.

Endotoxin: < 0.5 EU per 1 µg of the protein by the LAL

Storage: Store at -80°C.

Stability: Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Product images:



