enzynomics
www.enzynomics.com
info@enzynomics.com

# Cas9 Nuclease

| Cat.# | Size | Conc. |
|---|---|---|
| M058S | 70 pmol | 1,000 nM |
| M058H | 400 pmol | 20,000 nM |
| M058HL | 2,000 pmol | 20,000 nM |

**Expire date:**

**Store at -20℃**

**Supplied with:** 10X Cas9 Nuclease Buffer

## Product description
Cas9 Nuclease is the recombinant *Streptococcus pyogenes* Cas9 protein purified from E. coli. Cas9 is an RNA-guided endonuclease that catalyzes site-specific cleavage of double stranded DNA. The location of the break is within the target sequence 3 bases from the NGG PAM (Protospacer Adjacent Motif). The PAM sequence, NGG, must follow the targeted region on the opposite strand of the DNA with respect to the region complementary sgRNA sequence.

## Characteristics
- Molecular weight : 163 Kda
- Untagged Cas9 (wt) protein

## Applications
- Genome editing

## Quality control
- Purity : >95% on SDS-PAGE
- Endonuclease-free
- Exonuclease-free
- RNase-free
- Non-Specific DNase Activity (16 hour)

## Storage buffer
10 mM Tris-HCl, 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 50% Glycerol, pH 7.4

## Note
1,000 nM is equal to 159 ng/㎕

## Limitation of Liability
In no event will Enzynomics be liable for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.

## Standard reaction conditions

| | |
|---|---|
| Nuclease-free water | 20 ㎕ |
| 10X Cas9 Nuclease Buffer | 3 ㎕ |
| 300 nM sgRNA | 3 ㎕ (30 nM final) |
| Cas9 Nuclease | 1 ㎕ (~30 nM final) |

→ Pre-incubate for 10 minutes at 25℃
→ Add 3 ㎕ of 30nM substrate DNA to each sample
→ Incubate for 15 minutes at 37℃
→ Add 1 ㎕ of Proteinase K to each sample, Mix thoroughly
→ Incubate for 10 minutes at room temperature
*The sgRNA, nuclease-free water and Proteinase K are not included.

※'Standard conditions' is only a general recommendation. The experimental conditions should be adjusted according to the purpose and sample.

*For Research Use Only. Not for use in diagnostic procedures.*

ISO9001 ISO14001 ISO13485

Rev.180228

enzynomics
www.enzynomics.com
info@enzynomics.com

Cas9 Nuclease

Cat.# Size Conc.
M058S 70 pmol 1,000 nM
M058H 400 pmol 20,000 nM
M058HL 2,000 pmol 20,000 nM

Expire date:
Store at -20℃
Supplied with: 10X Cas9 Nuclease Buffer

Product description
Cas9 Nuclease is the recombinant *Streptococcus pyogenes* Cas9 protein purified from E. coli. Cas9 is an RNA-guided endonuclease that catalyzes site-specific cleavage of double stranded DNA. The location of the break is within the target sequence 3 bases from the NGG PAM (Protospacer Adjacent Motif). The PAM sequence, NGG, must follow the targeted region on the opposite strand of the DNA with respect to the region complementary sgRNA sequence.

Characteristics
- Molecular weight : 163 Kda
- Untagged Cas9 (wt) protein

Applications
- Genome editing

Quality control
- Purity : >95% on SDS-PAGE
- Endonuclease-free
- Exonuclease-free
- RNase-free
- Non-Specific DNase Activity (16 hour)

Storage buffer
10 mM Tris-HCl, 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 50% Glycerol, pH 7.4

Note
1,000 nM is equal to 159 ng/㎕

Limitation of Liability
In no event will Enzynomics be liable for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.

Standard reaction conditions

| | |
|---|---|
| Nuclease-free water | 20 ㎕ |
| 10X Cas9 Nuclease Buffer | 3 ㎕ |
| 300 nM sgRNA | 3 ㎕ (30 nM final) |
| Cas9 Nuclease | 1 ㎕ (~30 nM final) |

→ Pre-incubate for 10 minutes at 25℃
→ Add 3 ㎕ of 30nM substrate DNA to each sample
→ Incubate for 15 minutes at 37℃
→ Add 1 ㎕ of Proteinase K to each sample, Mix thoroughly
→ Incubate for 10 minutes at room temperature
*The sgRNA, nuclease-free water and Proteinase K are not included.

※'Standard conditions' is only a general recommendation. The experimental conditions should be adjusted according to the purpose and sample.

*For Research Use Only. Not for use in diagnostic procedures.*

ISO9001 ISO14001 ISO13485