

## NLS-Cas9-NLS Nuclease

## Summary

Catalog No. YXX08407

Alternative Names NLS-Cas9 Nuclease, Cas9, SpCas9, SpyCas9, CRISPR-associated

endonuclease Cas9/Csn1

Form Liquid

Purity >90% as determined by SDS-PAGE.

1) Non-viral vector CRISPR gene knockout based on protein-sgRNA

transfection. 2) Non-viral vector CRISPR gene knock-in based on protein

Applications transfection with sgRNA. 3) The DNA efficiency detection of sgRNA

shearing target site reduces the cost of in vivo screening. 4) Specific sites

of cleaved target DNA in vitro.

Endotoxin level Please contact with the lab for this information.

Expression system E. coli

NLS-Cas9-NLS is produced by expression in an E. coli strain carrying a

Protein length plasmid encoding the Cas9 gene from Streptococcus pyogenes with a

double-ends nuclear localization signal (NLS).

Nature Recombinant

Predicted molecular weight 163 kDa

Stability and Storage Store at -20 °C for twelve months from the date of receipt.

Species Streptococcus pyogenes

In general, proteins are provided as lyophilized powder/frozen liquid.

Shipping They are shipped out with dry ice/blue ice unless customers require

otherwise.





Note

For research use only.

## Description

NLS-Cas9 Nuclease is the recombinant Streptococcus pyogenes Cas9 protein with a nucleic localization signal (NLS) on both N and C terminal, which can be used for genome editing by inducing site-specific DNA double stranded breaks. The Cas9 protein forms a highly stable ribonucleoprotein (RNP) complex with guide RNA (sgRNA). When equipped with the NLS sequence, the Cas9-RNP complex can promptly localize to the nucleus upon cell entry, eliminating the need for in vivo transcription or translation.

## Data Image



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