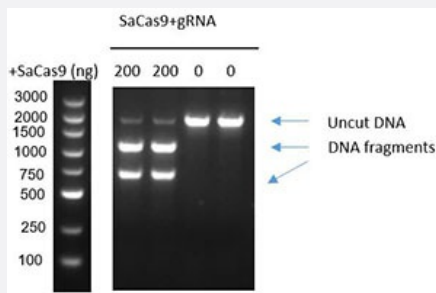


# SaCas9 2NLS Nuclease

Catalog # P7093      Size 1 mg

## Applications



A 20 uL reaction in 1xSaCas9 Nuclease Reaction Buffer containing linearized plasmid, gRNA, and SaCas9 2NLS Nuclease for 2 hours at 37°C results in a digestion efficiency of linearized plasmid higher than 90%, as determined by agarose gel electrophoresis.

## Specification

<b>Product Description</b>	Recombinant <i>Streptococcus aureus</i> tag-free Cas9 nuclease expressed in an <i>Escherichia coli</i> with both N-terminal and C-terminal nucleic localization signal (NLS).
<b>Host</b>	<i>Escherichia coli</i>
<b>Theoretical MW (kDa)</b>	~130 kDa
<b>Form</b>	Liquid
<b>Preparation Method</b>	<i>Escherichia coli</i> expression system
<b>Purity</b>	≥ 95% as analyzed by SDS-PAGE ≥ 90% as analyzed by SEC-HPLC
<b>Endotoxin Level</b>	≤ 10 EU/mg as analyzed by gel clotting method
<b>Quality Control Testing</b>	Cleavage assay A 20 uL reaction in 1xSaCas9 Nuclease Reaction Buffer containing linearized plasmid, gRNA, and SaCas9 2NLS Nuclease for 2 hours at 37°C results in a digestion efficiency of linearized plasmid higher than 90%, as determined by agarose gel electrophoresis.
<b>Recommend Usage</b>	CRISPR Genomic editing The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 20 mM Tris, 300 mM NaCl, 0.1 mM TCEP, pH7.5 (50% glycerol).

**Storage Instruction**

Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

---

## Applications

- CRISPR Genomic Editing