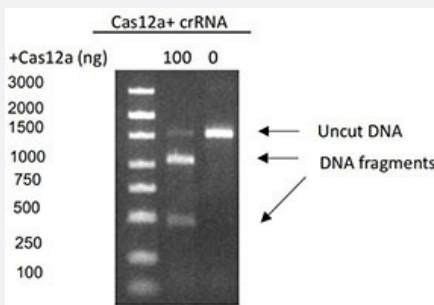


# Cas12a (Cpf1) Nuclease

Catalog # P7076      Size 100 ug

## Applications



A 20 uL reaction in 1xCas12a Nuclease Reaction Buffer containing 60 ng linearized plasmid, 10 ng crRNA, and 100 ng Cas12a (Cpf1) Nuclease for 30 mins 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>Acidaminococcus</i> sp. (strain BV3L6) Cas12a (cpf1) nuclease expressed in an <i>Escherichia coli</i> with a C-terminal nucleic localization signal (NLS) and 6x His-tag.
<b>Host</b>	<i>Escherichia coli</i>
<b>Theoretical MW (kDa)</b>	~150 kDa
<b>Form</b>	Liquid
<b>Preparation Method</b>	<i>Escherichia coli</i> expression system
<b>Purity</b>	≥ 90% by SDS-PAGE
<b>Endotoxin Level</b>	≤ 0.2 EU/ug of the protein by gel clotting method
<b>Quality Control Testing</b>	Cleavage assay A 20 uL reaction in 1xCas12a Nuclease Reaction Buffer containing 60 ng linearized plasmid, 10 ng crRNA, and 100 ng Cas12a (Cpf1) Nuclease for 30 mins 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 10 mM Tris, 300 mM NaCl, 0.5 mM DTT, pH7.4 (50% glycerol).

**Storage Instruction**

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

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## Applications

- CRISPR Genomic Editing