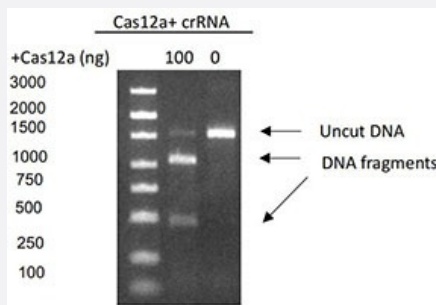


Cas12a (Cpf1) Nuclease

Catalog # P7078

Size 500 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

Product Description	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.
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	~150 kDa
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	≥ 90% by SDS-PAGE
Endotoxin Level	≤ 0.2 EU/ug of the protein by gel clotting method
Quality Control Testing	<p>Cleavage assay</p> <p>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.</p>
Recommend Usage	<p>CRISPR Genomic editing</p> <p>The optimal working dilution should be determined by the end user.</p>
Storage Buffer	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.

Applications

- CRISPR Genomic Editing