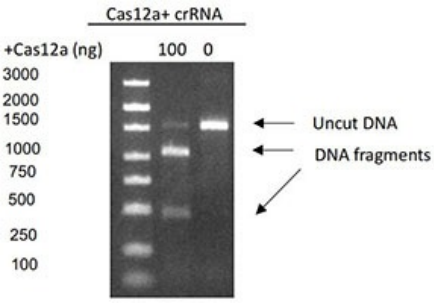
Cas12a (Cpf1) Nuclease

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 *Acidaminococcus sp.* (strain BV3L6) Cas12a (cpf1) nuclease expressed in an *Escherichia coli* with a C-terminal nucleic localization signal (NLS) and 6x His-tag.
Host	Escherichia coli
Theoretical MW (kDa)	~150 kDa
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	≥ 90% by SDS-PAGE
Endotoxin Level	≤ 0.2 EU/ug of the protein by gel clotting method
Quality Control Testing	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.
Recommend Usage	CRISPR Genomic editing The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM Tris, 300 mM NaCl, 0.5 mM DTT, pH7.4 (50% glycerol).

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

Applications

- CRISPR Genomic Editing

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