

**Features**

With two NLS, which leads to transport to the nucleus efficiently.
High cleavage activity.

Product Details

GENPower™ LbCas12a Nuclease (10 µg/µL) is a recombinant Lachnospiraceae bacterium Cas12 protein purified from Escherichia coli for CRISPR-based genome editing. The introduction of nuclear localization signals (NLS) can help Cas12 enter the nucleus, increasing the chance of genomic DNA cleavage.

Application

Developed as a variety of genome editing tools, such as transcription regulation, gene recombination, and base editing.

Concentration

10 µg/µL

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Sterility

Negative

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM NaAC, 500 mM NaCl, pH6.0 with glycerol as protectant.

Contact us for customized product form or formulation.

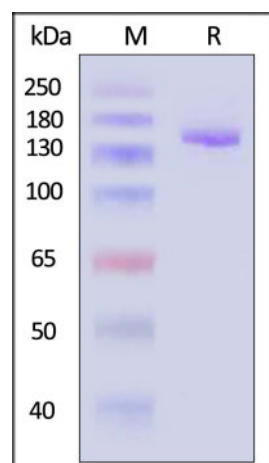
Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

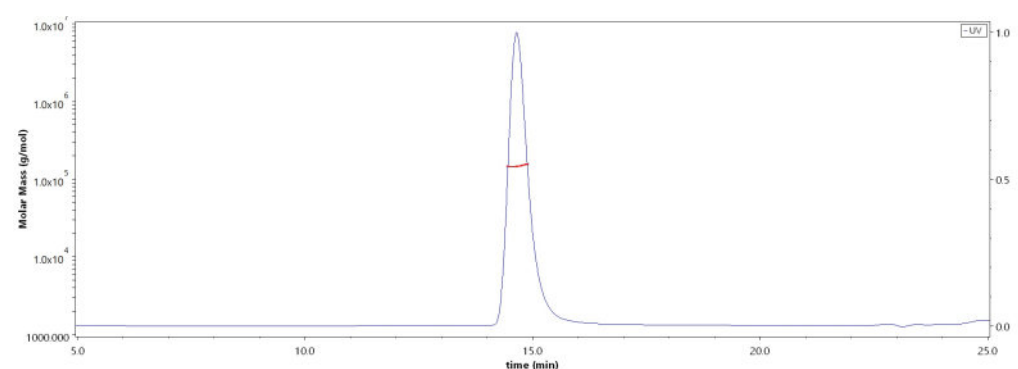
Storage

This product is stable after storage at:

- The product **MUST** be stored at -20°C or lower upon receipt;
- -20°C for 3 months under sterile conditions.

SDS-PAGE

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

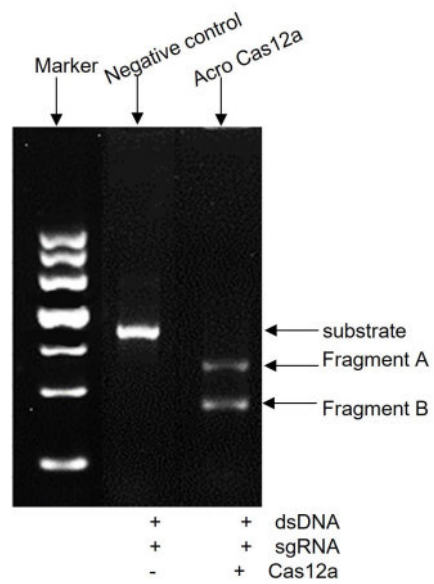
Bioactivity**SEC-MALS**

The purity of GENPower™ LbCas12a Nuclease (10 µg/µL) (Cat. No. CAA-L5140) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.

[Report](#)

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and more!





Measured by its ability to cleave a targeted DNA substrate. Cas12a achieves >90% substrate cleavage (QC tested).

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