



Features

- High cleavage activity in different cell line
- High purity (>95% SDS-PAGE / SEC-MALS)
- Animal-Free materials
- Batch-to-batch consistency
- Stringent quality control tests

Product Details

GENPower™ NLS-Cas9 Nuclease is a recombinant Streptococcus pyogenes Cas9 protein purified from Escherichia coli for CRISPR-based genome editing. The introduction of nuclear localization signals (NLS) can help Cas9 enter the nucleus, increasing the chance of genomic DNA cleavage.

Concentration

10 mg/mL

Purity

- >95% as determined by SDS-PAGE.
- >95% as determined by SEC-MALS.

Host Cell Protein

≤10 ng/mg of protein tested by ELISA.

Host Cell DNA

≤1 ng/mg of protein tested by qPCR.

Sterility

Negative

Mycoplasma

Negative.

Endotoxin

Less than 0.01 EU per µg by the LAL method.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM Tris, 300 mM NaCl, 0.1 mM EDTA, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

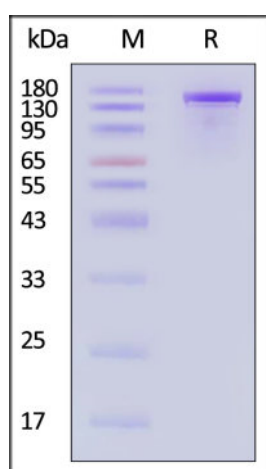
This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

This product is stable after storage at:

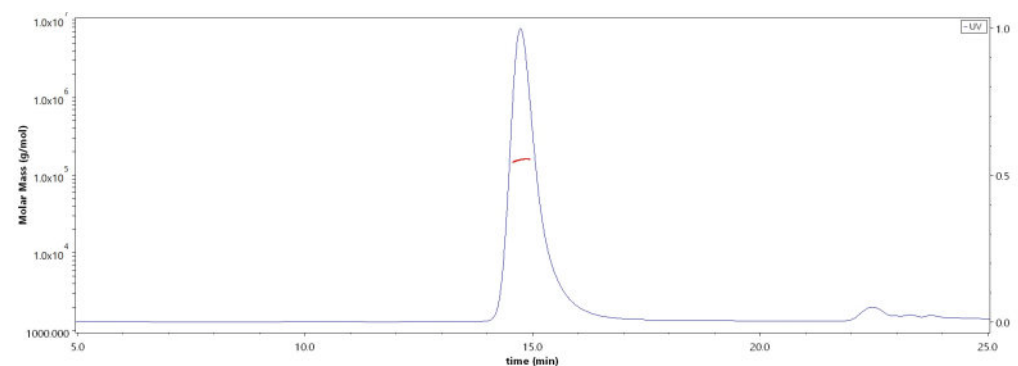
- The product **MUST** be stored at -20°C or lower upon receipt;
- -20°C for 18 months under sterile conditions.

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](#)).

SEC-MALS



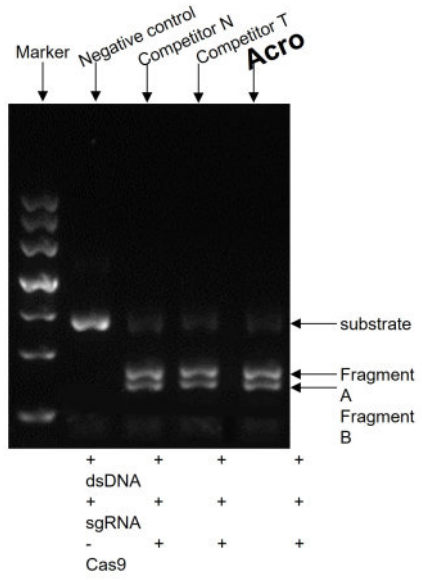
The purity of GENPower™ NLS-Cas9 Nuclease, premium grade (Cat. No. CA9-S5149) is more than 95% and the molecular weight of this protein is around 140-180 kDa verified by SEC-MALS.

[Report](#)

Bioactivity

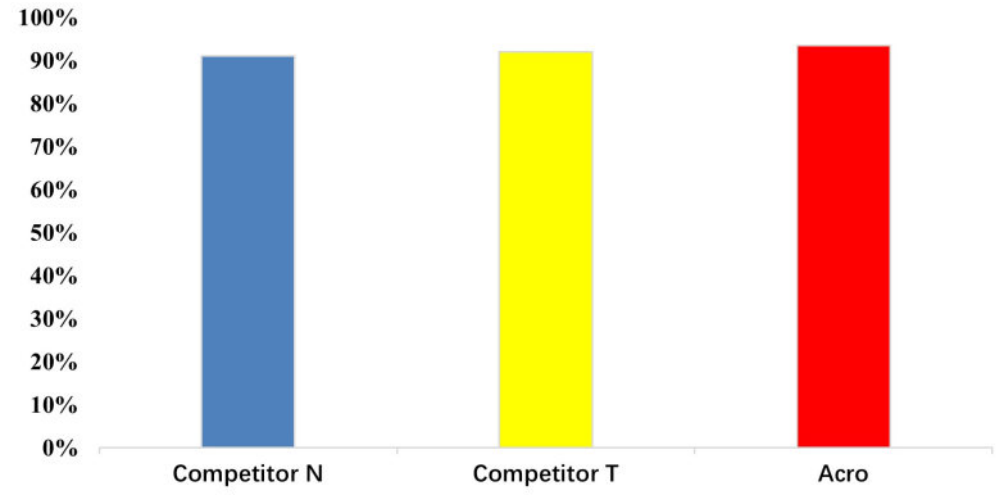
Discounts, Gifts,
and more!





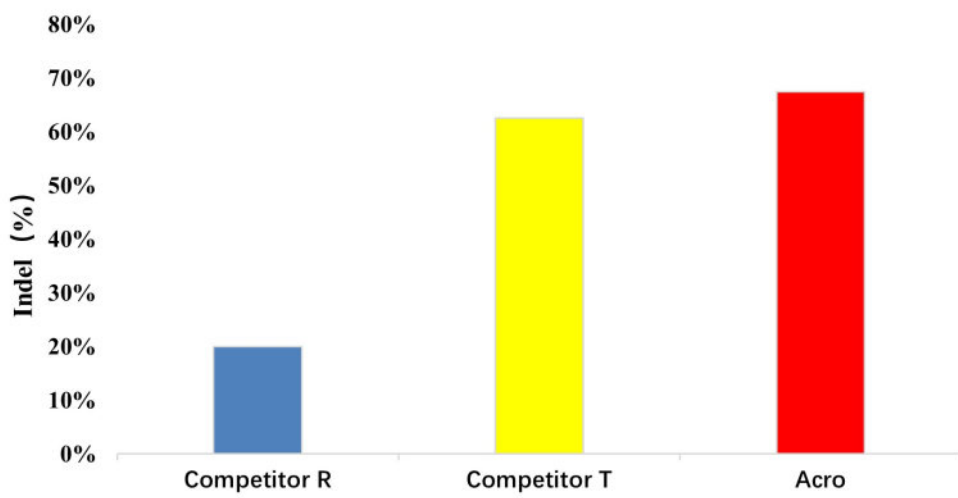
GENPower™ NLS-Cas9 Nuclease, premium grade is evaluated in an in vitro DNA cleavage assay on a DNA fragment containing the target sequence. The activity of the GENPower™ NLS-Cas9 Nuclease, premium grade is greater than 90% (QC tested).

Cleavage efficiency in vitro



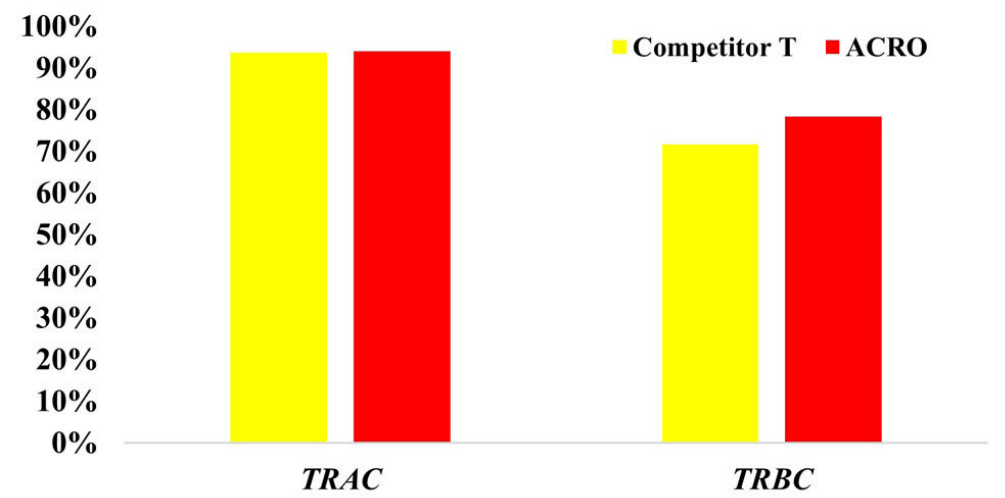
The cleavage activity of GENPower™ NLS-Cas9 Nuclease, premium grade in vitro.

Cleavage efficiency in cell line



The cleavage activity of GENPower™ NLS-Cas9 Nuclease, premium grade in cell line.

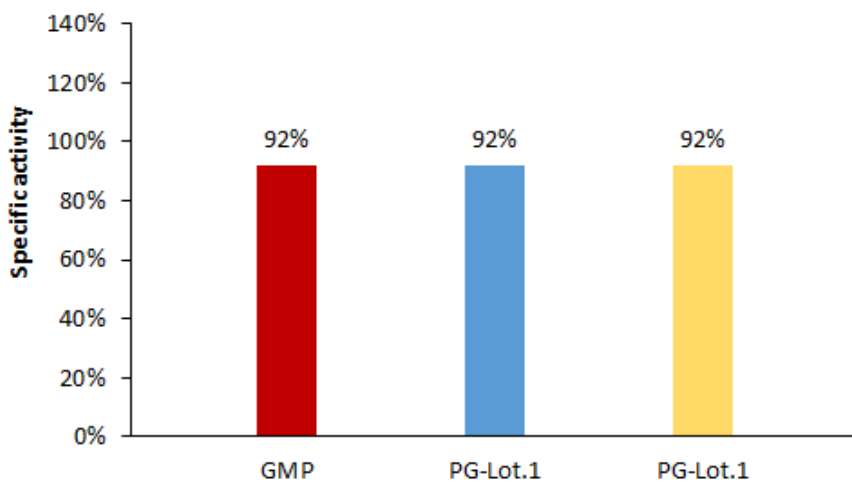
TCR knockout efficiency in T cell



The cleavage activity of GENPower™ NLS-Cas9 Nuclease, premium grade in human primary T cells.

Bioactivity-Stability

Batch consistency



The bioactivity based assay shows batch-to-batch consistency between Acro's GMP and PG Cas9.

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Clinical and Translational Updates

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