



**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**

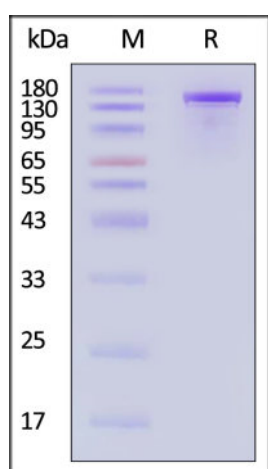
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

**Storage**

This product is stable after storage at:

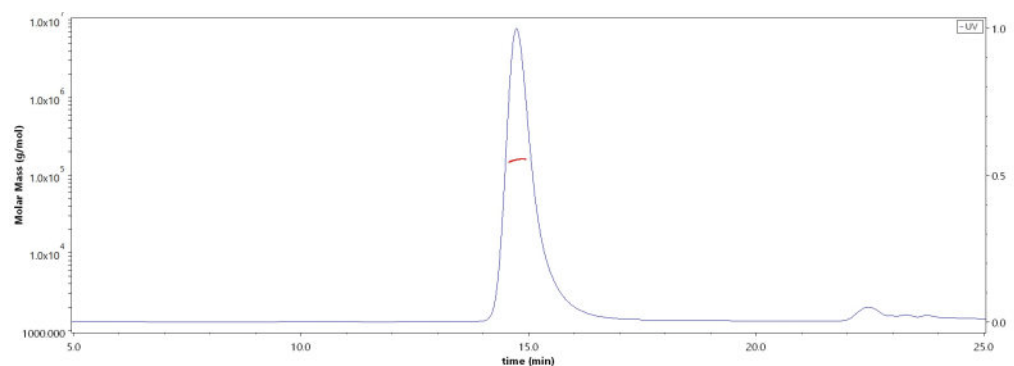
- The product **MUST** be stored at -20°C or lower upon receipt;
- -20°C for 18 months under sterile conditions.

**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**



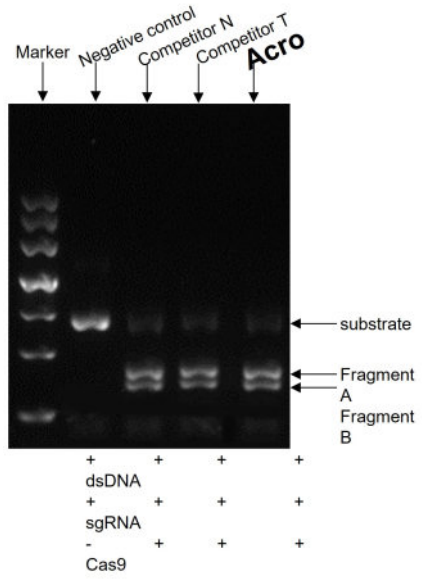
The purity of GENPower™ NLS-Cas9 Nuclease, premium grade (Cat. No. CA9-S5149) is more than 95% and the molecular weight of this protein is around 140-180 kDa verified by SEC-MALS.

[Report](#)

**Bioactivity**

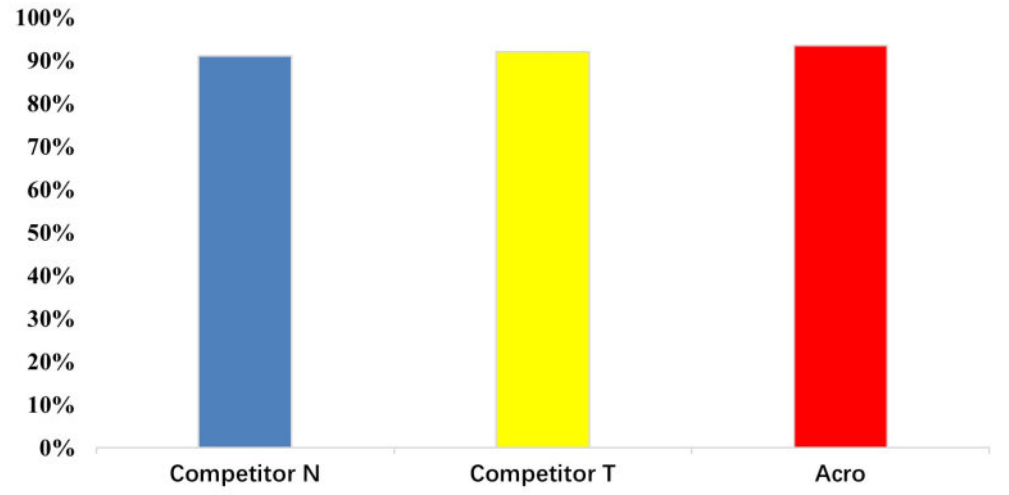
Discounts, Gifts, and more!





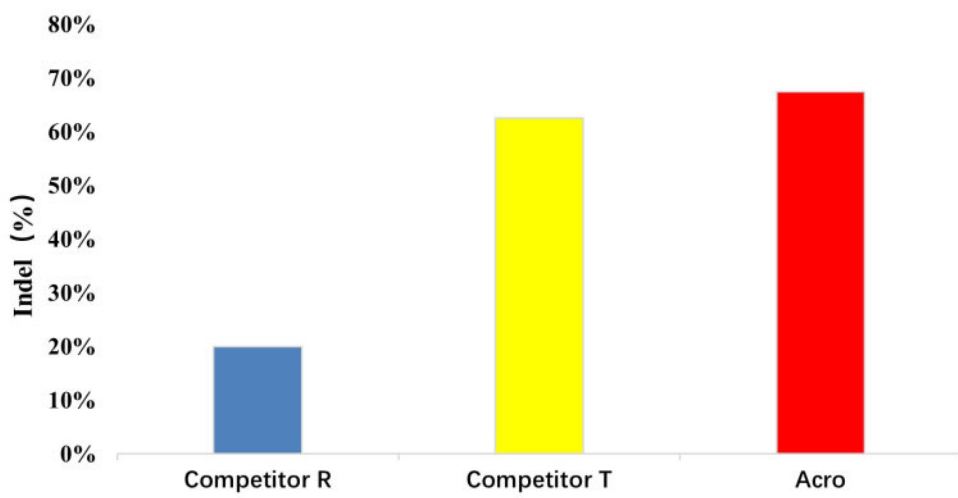
GENPower™ NLS-Cas9 Nuclease, premium grade is evaluated in an in vitro DNA cleavage assay on a DNA fragment containing the target sequence. The activity of the GENPower™ NLS-Cas9 Nuclease, premium grade is greater than 90% (QC tested).

**Cleavage efficiency in vitro**



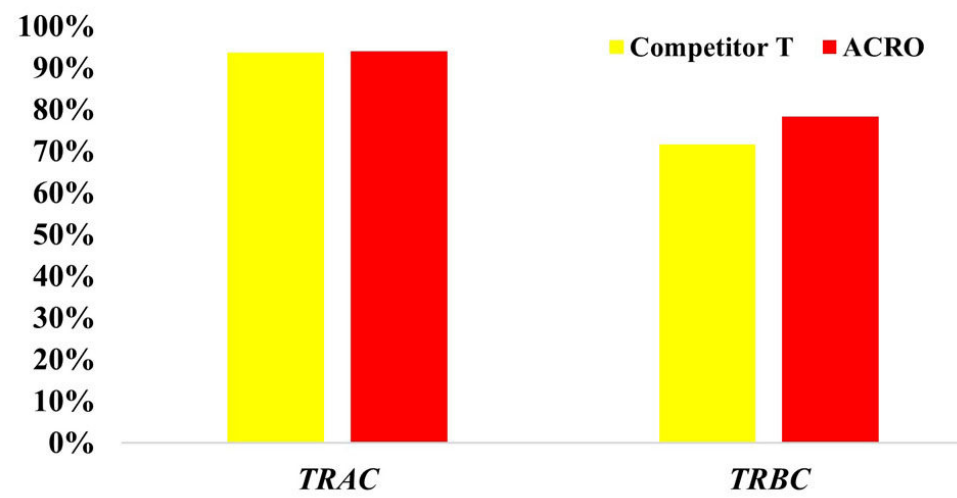
The cleavage activity of GENPower™ NLS-Cas9 Nuclease, premium grade in vitro.

**Cleavage efficiency in cell line**



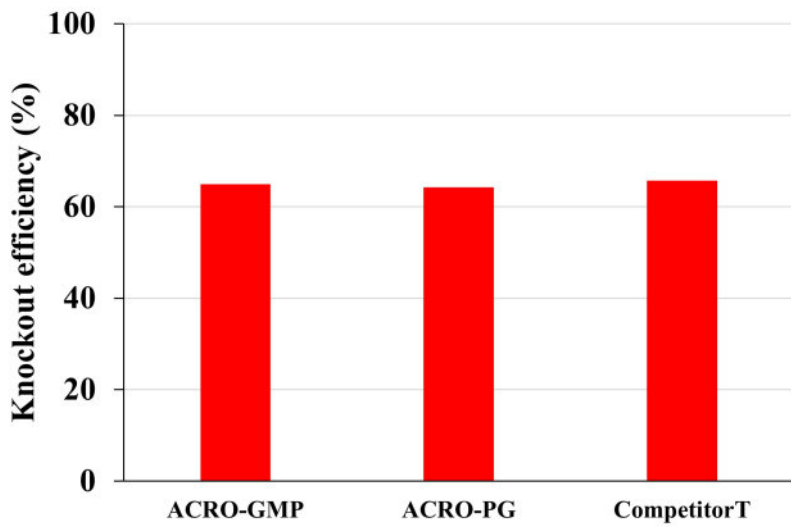
The cleavage activity of GENPower™ NLS-Cas9 Nuclease, premium grade in cell line.

**TCR knockout efficiency in T cell**



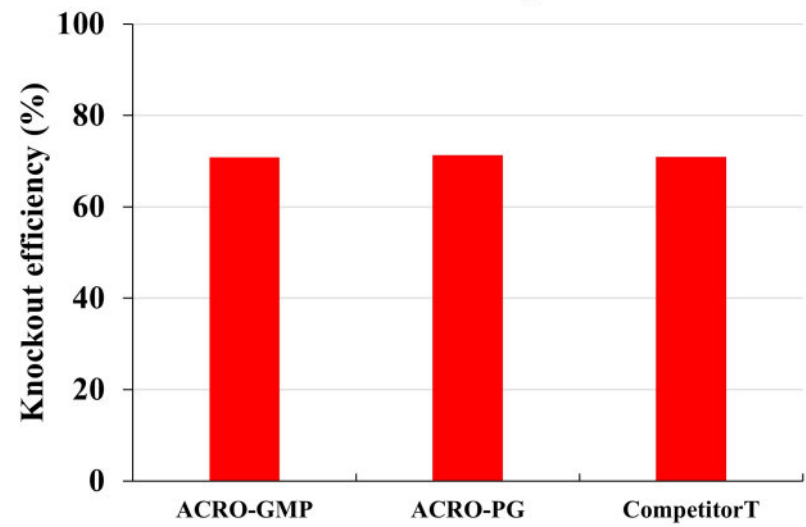
The cleavage activity of GENPower™ NLS-Cas9 Nuclease, premium grade in human primary T cells.

**B2M Knockout efficiency in T cell**



The knockout efficiency for B2M in primary T cell was measured by Flow Cytometry.

**TRAC Knockout Efficiency in Jurkat cell**



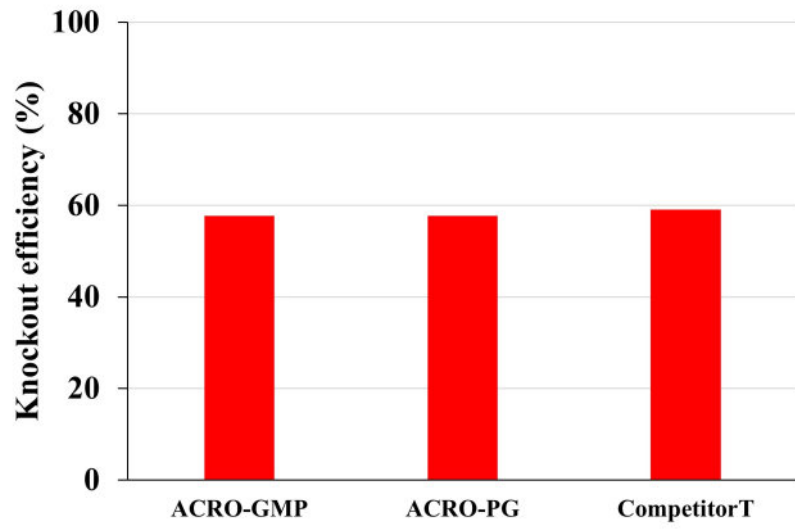
The knockout efficiency for TRAC in Jurkat cell was measured by Flow Cytometry.

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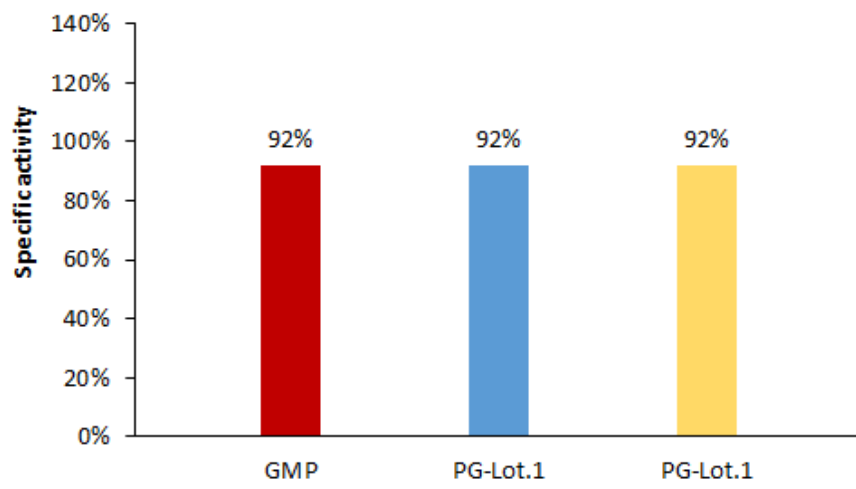
### B2M Knockout efficiency in Jurkat cell



The knockout efficiency for B2M in Jurkat cell was measured by Flow Cytometry.

### Bioactivity-Stability

#### Batch consistency



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

### Clinical and Translational Updates

Discounts, Gifts,  
and more!

