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Recombinant CRISPR Cas9 Protein, GMP-Grade

Catalog #GMP-CAS-EE110

Storage Condition $-20^{\circ}C \pm 5^{\circ}C$ for 24 months. Avoid repeated freeze/thaw cycles.

Form Liquid

Source *E. Coli* with CRISPR *Cas9* gene of *S. pyogenes* **Synonyms** CRISPR-associated endonuclease Cas9/ Csn1, cas9, SpCas9, SpyCas9

Storage Buffer 30mM Tris-HCl, 0.3M NaCl, 50% Glycerol, 0.1 mM EDTA, pH 7.4

Concentration 9.5-12.5mg/mL. Exact concentration shown on product label.

Product Contents

• Recombinant Cas9 Protein, GMP-Grade

Product Description

Recombinant Streptococcus pyogenes Cas9 nuclease, purified from E.coli, is a powerful tool for genome editing. The nuclease can also be applied to the field of molecular diagnosis. This product has undergone codon optimization, nuclear localization signal (NLS) design, and optimization of E. coli expression and purification.

Applications

- Genome editing with CRISPR
- T-Cells, Stem Cells, etc.

Quality Control Statement

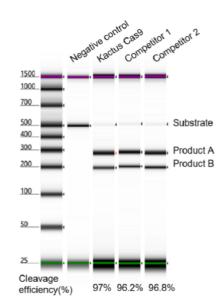
KACTUS manufactures this product according to GMP guidelines and performs stringent quality control testing before release. The production is antibiotic- and animal-free. Regulatory support documents are available. Please contact help@kactusbio.com for more information

	Quality	Control	Release	Criteri	a
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Assay	Criteria
Purity (Bis-Tris)	≥ 95%
Purity (RP-HPLC)	≥ 95%
Purity (SEC-HPLC)	≥ 95%
Activity (in vitro cleavage)	> 85%
Endotoxin	≤ 10EU/mg
Residual DNase	≤ LOD
Residual RNase	≤ LOD
Residual Host Cell Protein	≤ 100ng/mL
Residual Host Cell DNA	≤ 200ng/mL
Sterility	Negative
Mycoplasma	Negative

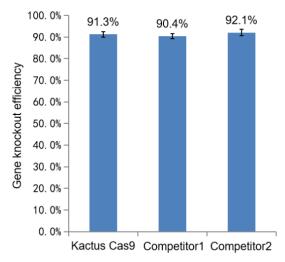
KACTUS, 1 Broadway FL14, Cambridge MA 02142

Performance Validation



Tel: (617) 665-7333 help@kactusbio.com www.kactusbio.com

Cas9 cuts substrate DNA during *in vitro* cleavage reaction. Results show cleavage activity of KACTUS Cas9 is equivalent to that of leading competitors.



Cas9 is used for gene knockout in 293T cell line. Results show KACTUS Cas9 has the same knockout efficiency as leading competitors.