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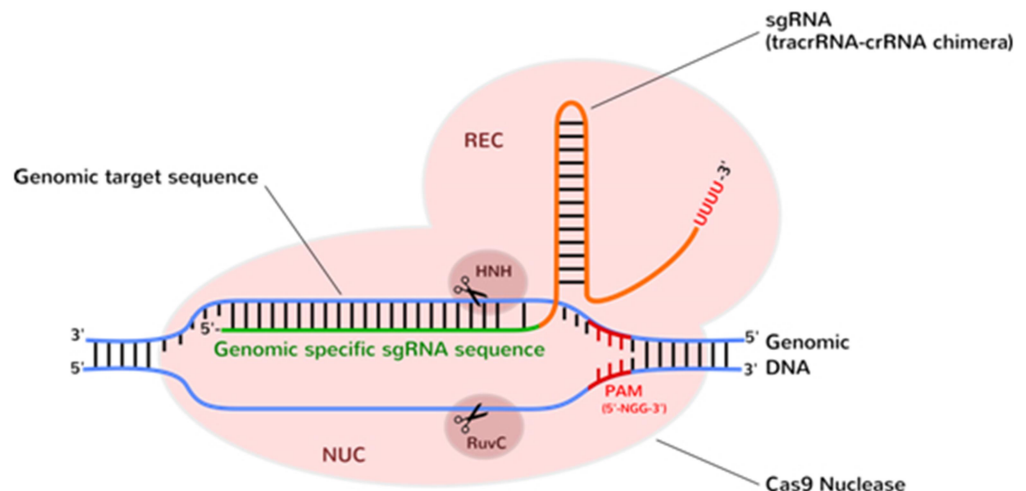
# Product Manual

## Cas9 Nuclease

Catalog #	Quantity	Concentration
P1002	50 $\mu$ l	3.2 $\mu$ M

**Alternative name** spyCas9, spCas9, CRISPR-associated endonuclease Cas9 from *Streptococcus pyogenes*

**Description** CRISPR/Cas systems are originally discovered in bacteria and archaea as an adaptive immune system to defense against viruses and plasmids in the environment. In this system, Cas9 (CRISPR associated protein 9) protein is guided by a non-coding RNA (gRNA) to cut the double-strand DNA at the desired genomic location. Then, endogenous DNA repairing processes are activated to heal the targeted DSB. Recombinant *Streptococcus pyogenes* Cas9 protein is overexpressed in *E.coli*, and purified with N- and C-terminal NLS signal as a ready-to-injection/transfection reagent for genome engineering experiments.



Boston Cellron Technology

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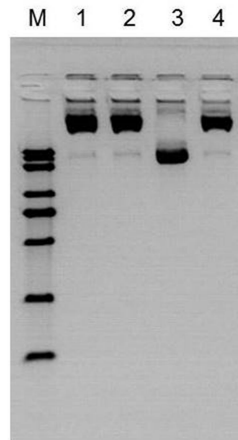
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**Expressed in**  
**In vitro assay**

E.coli



- 1: Plasmid
- 2: Plasmid+Cas9
- 3: Plasmid+Cas9+sgRNA
- 4: Plasmid+sgRNA

**Storage**

Store all components at -20°C

**Storage buffer**

10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM DTT, 300 mM NaCl, and 50% (v/v) Glycerol

**10 x reaction buffer**

200 mM HEPES, 50 mM MgCl<sub>2</sub>, 1 M NaCl, 1 mM EDTA, pH 6.5

**Note**

For laboratory research only. Not for clinical applications.

For technical questions, please email us at [support@cellron.com](mailto:support@cellron.com) or visit our website at [www.cellron.com](http://www.cellron.com)

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