

## wtCas9

<b>Catalog Number</b>	LDG001POE
<b>Package</b>	5 µg / 20 µg / Customized package

For full product information, images and publications, please visit [our website](#).



## Specifications

### Species of Origin

Streptococcus pyogenes

### Affinity Tag

His Tag (C-term)

### Purity

>98% as determined by SDS-PAGE analysis.

### Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

### Expression system

Escherichia coli

### Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

### Molecular weight

The protein has a calculated MW of 159.27 kDa.  
The protein migrates as 130-180 kDa under reducing condition (SDS-PAGE analysis).

### Form

Lyophilized

## Background

### Tainan Headquarter

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### Innovation & Research Center

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### Background

The wtCas9 is a recombinant *Streptococcus pyogenes* Cas9 protein (wild type form) purified from *E. coli*. Cas9 protein can form a very stable ribonucleoprotein (RNP) complex with the guide RNA (gRNA). The RNP complex can recognize the target site by matching gRNA with the genomic DNA sequence and make DNA breaks within 3 bases from the NGG PAM. With the CRISPR/Cas9 system, researchers can validate gene editing assay in cells or other kinds of animals.

### Uniprot ID

#Q99ZW2

### Synonyms

CRISPR-associated endonuclease Cas9/Csn1, SpCas9, SpyCas9

### Sequence Note

Met1-Asp1368

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

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SDS-PAGE analysis of recombinant wtCas9.

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