

## eSpCas9 (1.1)

**Catalog Number** LDG002POE

**Package** 20 µg / 100 µg / Customized package

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



## Specifications

### Species of Origin

Streptococcus pyogenes

### Affinity Tag

His-MBP Tag (N-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

### Storage Buffer

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

### Molecular weight

The protein has a calculated MW of 201 kDa. The protein migrates about 180 kDa under reducing condition (SDS-PAGE analysis).

### Form

Lyophilized

## Background

### Tainan Headquarter

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### Background

The enhanced specificity Cas9 protein from *Streptococcus pyogenes* (~160 KD), modified at sites K848A/K1003A/R1060A, exhibit substantially reduced off-target cleavage in cells. When combined with target RNAs, eSpCas9 protein will act as a targeted nuclease suitable for transfection of cell cultures and help the development of genetically-modified animals via one-cell embryo injection.

### Uniprot ID

#BDU59491.1

### Synonyms

CRISPR-associated endonuclease Cas9/Csn1, SpCas9, SpyCas9

### Sequence Note

Asp41-Asp1407

## 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

### Tainan Headquarter

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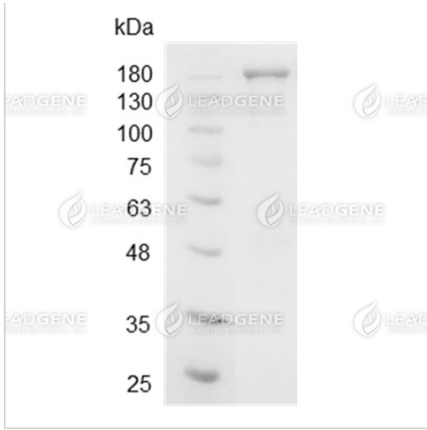
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SDS-PAGE analysis of recombinant eSpCas9 (1.1).

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