

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

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 H₂O 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

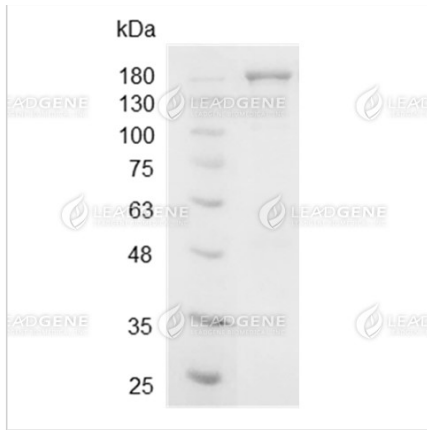
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SDS-PAGE analysis of
recombinant eSpCas9 (1.1).

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