

wtCas9

Catalog Number LDG001POE 5 μg / 20 μg / Customized package **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

 $< 0.1 \; EU \; per \; 1 \; \mu g \; of \; the \; protein \; by \; the \; LAL$ 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



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 recognizes 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 valid 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_2O to a concentration not less than 200 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolved.

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.

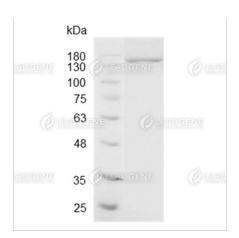
Avoid repeated freeze/thaw cycles.

Shipping

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

Image





SDS-PAGE analysis of recombinant wtCas9.

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