LEADGENE
LEADGENE BIOMEDICAL, INC.

Datasheet

wtCas9

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

For full product information, images and publications, please visit our website.

Specifications

Species of Origin

Streptococcus pyogenes

Expression System

Escherichia coli

Affinity Tag

His Tag (C-term)

Storage Buffer

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

Purity

>98% as determined by SDS-PAGE analysis.

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).

Endotoxin Level

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

Form

Lyophilized

Background

Tainan Headquarter

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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 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.

Synonyms

CRISPR-associated endonuclease Cas9/Csn1, SpCas9, SpyCas9

Uniprot ID

#Q99ZW2

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 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping

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

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.

Image

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SDS-PAGE analysis of recombinant wtCas9.

Disclaimer : For Research Use or Further Manufacturing Only.

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