Cas9, NLS, His-Tag (S. pyogenes) Recombinant

Catalog: 101635 Lot: 230110

Product Information

Description: Recombinant S. pyogenes SpCas9-NLS (conserved hypothetical protein), full length.

This construct contains a C-terminal His-Tag. SpCas9-NLS contains a nuclear

localization sequence for optimal activity.

Species: Streptococcus pyogenes

Construct: Cas9 (Full Length-NLS-His) (S. pyogenes)

Concentration:0.1 mg/mlExpression System:E. coliPurity:70%

Format: Agueous buffer solution.

Formulated In: 50 mM sodium phosphate, pH 7.5, 300 mM NaCl, 1 mM DTT, 150 mM imidazole, and

10% glycerol

MW: 160 kDa Genbank Accession: AAK33936

Stability: At least 6 months at -80°C.

Storage: -80°C

Instructions for Use: Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before

opening. Aliquot into small volumes and flash freeze for long term storage. Avoid

multiple freeze/thaw cycles.

Assay Conditions: Cas9 activity was measured using DNA Cleavage assay. Active Cas9 enzyme, sgRNA or

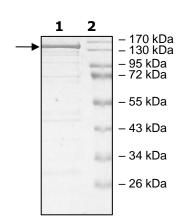
tracrRNA/crRNA, 5 μ l of 4X Cas9 reaction buffer (200 mM Tris-HCl, pH 7.9, 400 mM MgCl₂, and 0.4 mg/ml Prionex (w/v 0.04%)) and nuclease-free water were combined to a final reaction volume of 20 μ l. The reaction was then incubated at room temperature for 20-60 minutes, followed by the addition of 20-500 ng of target DNA to the Cas9-gRNA complex to initiate the reaction. A subsequent incubation at 37°C for 10-30

minutes. Cleavage of target DNA was confirmed by running a DNA agarose gel.

Applications: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Activity

