

Active Recombinant *Streptococcus pyogenes* M1 cas9 Protein, His-tagged

Cat. No. cas9-12S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the <i>s. pyogenes</i> serotype M1 cas9 (WP_010922251.1) (Met1-Asp1368) was expressed with a nuclear localization sequence (NLS) at the N-terminus, two NLSs and a polyhistidine tag at the C-terminus.
Species	<i>Streptococcus pyogenes</i> M1
Source	Insect Cells
Predicted N Terminal	Met
Form	Supplied from sterile 20 mM Tris, 300 mM NaCl, 50 % glycerol, pH 8.0, 0.5 mM PMSF, 0.1 mM EDTA, 0.5 mM TCEP.
Bio-activity	1 ug = 5 U 1 U is defined as cutting 1 ug 1 KB dsDNA in 30 min at 37°C
Molecular Mass	The recombinant <i>s. pyogenes</i> serotype M1 cas9 consists of 1407 amino acids and predicts a molecular mass of 163 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C

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Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	Liquid. It is shipped out with blue ice.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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