

Active Recombinant Lachnospiraceae bacterium Cas12a protein

Cat. No. Cas12a-3070L **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Lachnospiraceae bacterium Cas12a protein(Ser 2-His 1228) was expressed in E.coli.
Species	Lachnospiraceae
Source	E.coli
ProteinLength	Ser 2-His 1228
Form	Supplied as 0.2 µm filtered solution in 20 mM NaAC,500 mM NaCl,0.1 mM EDTA,0.1 mM TCEP,pH 6.0 with glycerol as protectant.
Bio-activity	Measured by its ability to cleave a targeted DNA substrate. Cas12a achieves >90% substrate cleavage.
Molecular Mass	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 147.6 kDa. The protein migrates as 135-145 kDa under reducing (R) condition (SDS-PAGE). This protein has two NLS, which leads to transport to the nucleus efficiently. It is ideal for in vitro and in vivo reactions.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.

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Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
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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