

Recombinant Lachnospiraceae Cas12 Protein, GST-tagged

Cat. No. Cas12-02L **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Lachnospiraceae Cas12 (LbCpf1) (1-1227) was expressed in E. coli with a N-terminal GST tag.
Species	Lachnospiraceae
Source	E.coli
ProteinLength	1-1227
Description	The severe acute respiratory syndrome related novel coronavirus SARS-CoV-2 has caused the pandemic of the respiratory diseases (COVID-19) around the world in 2020. Developing rapid and sensitive diagnostic tools is key for successful patient management and curbing the disease spread. Several CRISPR-Cas12 based SARS-CoV-2 detection assays have been developed. Comparing to conventional RT-PCR based tests that are hindered by the need for expensive lab instrumentation, Cas12 based tests are ultrasensitive, rapid and in low-cost POCT formats.
Molecular Mass	150 kDa
Purity	~ 70%
Applications	Activity Assay
Stability	One year at -70 centigrade from date of shipment.

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Storage Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 $\mu\text{g}/\mu\text{L}$

Storage Buffer Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1 mM EDTA, 1mM DTT, 10% glycerol.

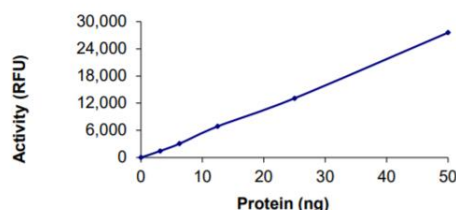
Shipping Dry ice

GENE INFORMATION

Official Symbol Cas12

Synonyms Cas12; Cpf1 (synthetic construct)

Activity



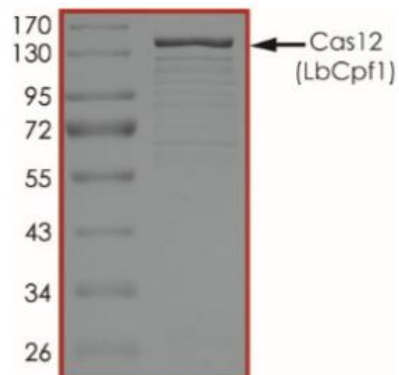
The specific activity of Cas12 (LbCpf1) was determined to be 11.4 nmol/min/mg as per activity assay protocol.

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Purity



The purity of Cas12 (LbCpf1) was determined to be ~70% by densitometry. Approx. MW 150kDa.

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