

Recombinant Active Lachnospiraceae Cas12 (LbCpf1) Protein, GST-tagged

Cat. No. Cas12 (LbCpf1)-18L **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 a.a.
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	Approx 150 kDa
Purity	~70%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller

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quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µL

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

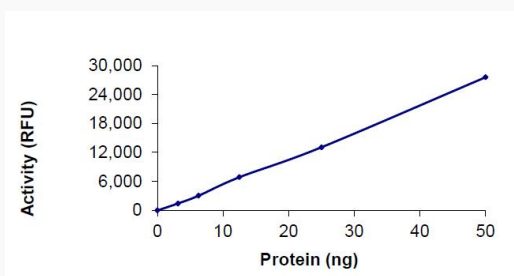
Shipping Dry ice

GENE INFORMATION

Synonyms Cas12 (LbCpf1)

mRNA Refseq [ATB19154](#)

Specific activity



The specific activity of Cas12a (LbCpf1) was determined to be 11.4 nmol/min/mg as per activity assay protocol.

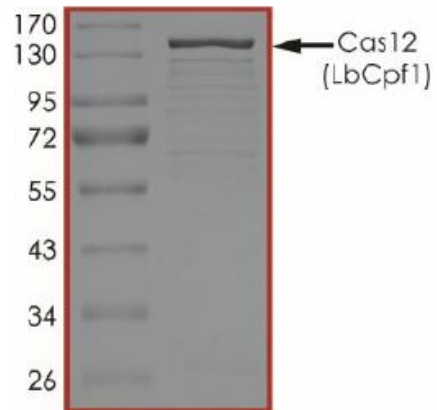
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Purity



The purity of Cas13a (LbCpf1) was determined to be ~70% by densitometry.

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