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

Cat. No. Cas12 (LbCpf1)-17L **Lot. No.** (See product label)

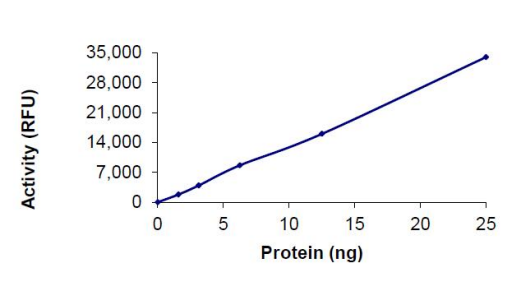
SPECIFICATION

Product Overview	Recombinant Lachnospiraceae Cas12 (LbCpf1) (1-1227) was expressed in E. coli with a C-terminal His 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 130 kDa (calculated ~140 kDa)
Purity	>85%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller

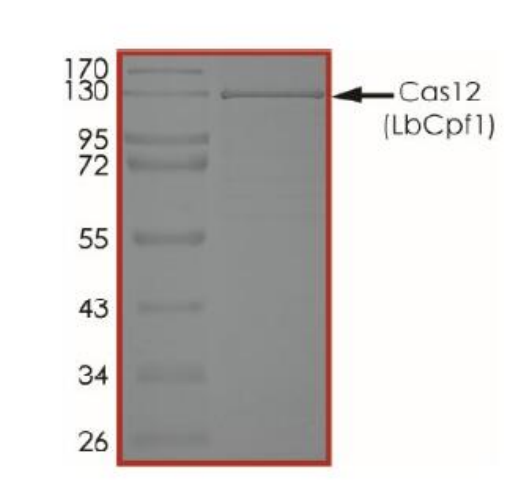
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	quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05 μg/μL
Storage Buffer	Recombinant protein stored in 50 mM sodium phosphate, pH 7.5, 300mM NaCl, 150mM imidazole, 10% glycerol, 1 mM DTT.
Shipping	Dry ice

GENE INFORMATION

Synonyms	Cas12 (LbCpf1)
mRNA Refseq	ATB19154
Specifc activity	 The specifc activity of Cas13a (LbCpf1) was determined to be 28.6 nmol/min/mg as per activity assay protocol.

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Purity	 The purity of Cas13a (LbCpf1) was determined to be >85% by densitometry.

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