

Recombinant *Leptotrichia buccalis* LbuCas13a Protein

Cat. No. LbuCas13a-21L **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant tag-free <i>Leptotrichia buccalis</i> LbuCas13a was expressed in <i>E. coli</i> cells.
Species	<i>Leptotrichia buccalis</i>
Source	<i>E. coli</i>
Description	Cas13a is an RNA-guided RNA endonuclease that belongs to the class 2 type VI CRISPR-Cas system. Cas13a possesses both RNA recognition and cleavage activities and cleaves RNA through conserved basic residues within its two HEPN domains). Interestingly, activated Cas13a induces collateral cleavage of nearby non-targeted RNAs in a nonspecific manner. Engineered LbuCas13a shows stability and altered cleavage activity in vitro and possesses the capability of robust exon skipping in human cells.
Molecular Mass	132 kDa
Purity	>80%
Stability	One year at -70 centigrade from date of shipment.
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	0.5 µg/µL

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Storage Buffer

Recombinant protein stored in 50 mM phosphate, pH 7.5, 300mM NaCl, 10% glycerol, 1 mM DTT.

Shipping

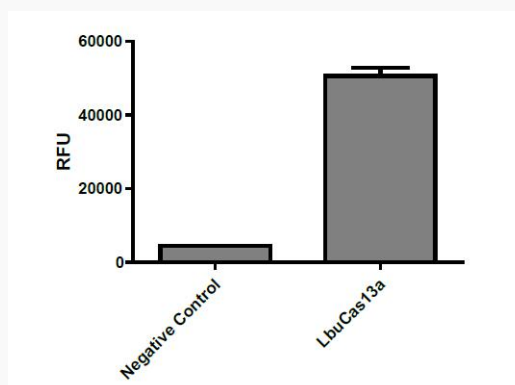
Dry ice

GENE INFORMATION
Synonyms

LbuCas13a

Protein Refseq

[WP_015770004](#)

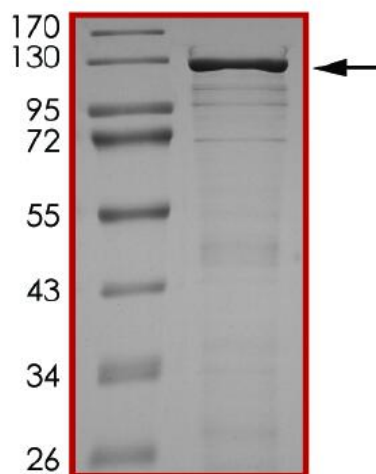
Activity


LbuCas13a nuclease activity was assayed using a fluorogenic substrate.

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SDS-PAGE

The purity of LbuCas13a was determined to be >80% by densitometry.

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