

Recombinant *Leptotrichia wadei* Cas13a Protein, His-tagged

Cat. No. Cas13a-037L Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Leptotrichia wadei</i> Cas13a (LwC2c2) (1-1152) was expressed in <i>E. coli</i> with a C-terminal His tag.
Species	<i>Leptotrichia wadei</i>
Source	<i>E. coli</i>
ProteinLength	1-1152
Description	Cas13a is RNA-guided RNA endonuclease that belongs to class 2 type VI CRISPR-Cas system. Cas13a possess 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. This property of Cas13a enzyme has been leveraged for the development of sensitive and robust nucleic acid detection diagnostic tool for clinical samples. Diagnostics using Cas13a for detection of SARS-CoV-2 offers promising alternative to quantitative PCR. In addition, CRISPR-Cas13a system provides opportunity for the development of clinical research in precision oncology.
Molecular Mass	130 kDa
Purity	~ 90%
Applications	ELISA

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

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	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 8.0, 300mM NaCl, 150mM imidazole, 1mM DTT, 10% glycerol.
Shipping	Dry ice

GENE INFORMATION

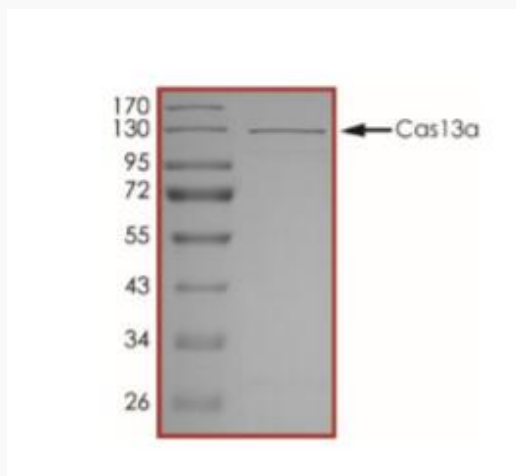
Official Symbol	Cas13a
Synonyms	LwCas13a; LwaCas13a; LwC2c2; EndoRNase; CRISPR-associated endoribonuclease Cas13a
Protein Refseq	WP_021746774
UniProt ID	U2PSH1

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Purity



The purity of Cas13a (LwC2c2) was determined to be ~90% by densitometry.
approx. MW 130 kDa.

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