

Recombinant Alicyclobacillus acidiphilus AapCas12b Protein

Cat. No. AapCas12b-20A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant tag-free Alicyclobacillus acidiphilus AapCas12b was expressed in E. coli cells.
Species	Alicyclobacillus acidiphilus
Source	E.coli
Description	CRISPR (clustered regularly interspaced short palindromic repeat) and their CRISPR-associated (Cas) proteins constitute the adaptive immune system in bacteria. This system has been redesigned to create an exemplary genome editing tool for application to RNA-based therapeutics development. AapCas12b belongs to the type V CRISPR effector, CRISPR-Cas12b/C2c1, and due to its thermostability, it can be used in a wide range of biomedical applications including loop-mediated isothermal amplification (LAMP), mammalian genome editing, and gene activation.
Molecular Mass	128 kDa
Purity	>75%
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.

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Concentration 1.0 µg/µL

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

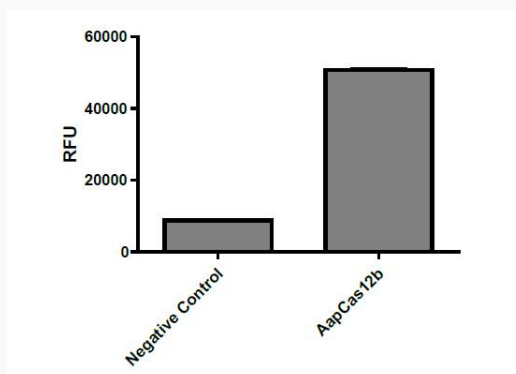
Shipping Dry ice

GENE INFORMATION

Synonyms AapCas12b

Protein Refseq [WP_067623834](#)

Activity



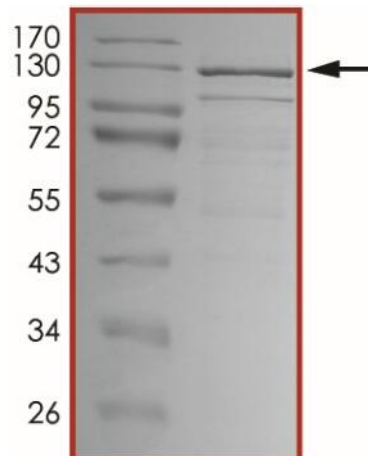
AapCas12b nuclease activity was assayed using a fluorogenic substrate.

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SDS-PAGE



The purity of AapCas12b was determined to be >75% by densitometry.

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