

Recombinant Brevibacillus sp Cas12b Protein, His-tagged

Cat. No. Cas12b-04B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Brevibacillus sp BrCas12b (1-1090) was expressed in E. coli cells with a C-terminal His tag.
Species	Brevibacillus Sp
Source	E.coli
ProteinLength	1-1090
Description	CRISPR (clustered regularly interspaced short palindromic repeat) and CRISPR-associated (Cas) proteins constitute the adaptive immune system in bacteria. This system has been redesigned to create an exemplary genome editing tool for RNA-based therapeutics development. Cas12 and Cas13 have collateral nucleotide cleavage activities and are widely used in CRISPR-based diagnostic platforms. BrCas12b from Brevibacillus shows robust trans-cleavage activity at ideal LAMP (loop-mediated isothermal amplification) temperature. The thermal stability of BrCas12b enables one-pot target nucleic detection to minimize carryover contamination.
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. Avoid repeated handling and multiple freeze/thaw cycles.

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Concentration 0.23 µg/µL

Storage Buffer 150mM imidazole, 50mM sodium phosphate, pH 7.5, 1mM DTT, 10% glycerol.

GENE INFORMATION

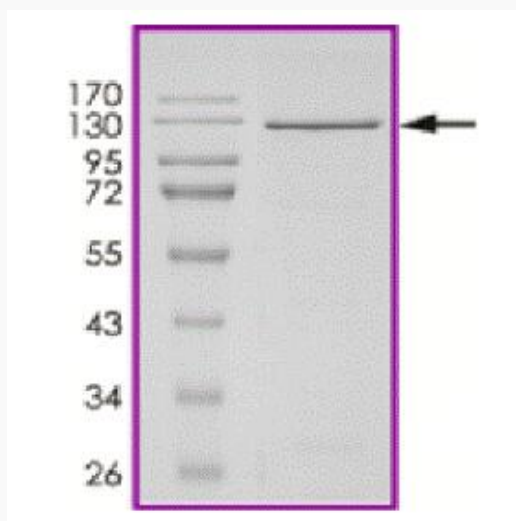
Official Symbol Cas12b

Synonyms c2c1; CRISPR-associated endonuclease C2c1; Cas12b

Protein Refseq [WP_165214399](#)

Biological Activity

SDS-PAGE



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