

saCas9 Null Mutant Enzyme

saCas9 Null Mutant Protein

CATALOG #
AAA214190

HOST
E. coli

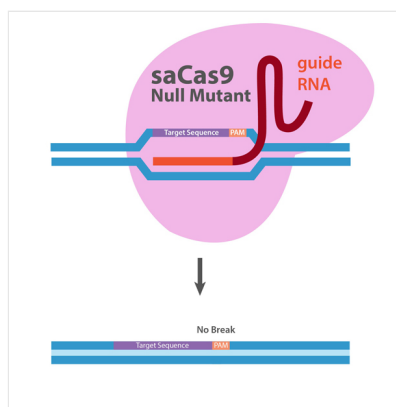
PRODUCT SYNONYMS

saCas9 Null Mutant; saCas9 Null Mutant Protein; saCas9d; Dead saCas9; saCas9 Double Mutant; Nuclease-deficient saCas9; CRISPR-associated endonuclease Cas9 from Staphylococcus aureus; saCas9 Null Mutant enzyme

PRODUCT SPECIFICATIONS

Host	E. coli
Form/Format	Enzyme supplied with 10X Reaction Buffer; 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM DTT, 300 mM NaCl, and 50% (v/v) Glycerol.
Concentration	1000 nM, 130 µg/ml (varies by lot)
SKU	K046
Cas Type	Null Mutant
Cas Origin	saCas9
Cas Protein Marker	No GFP
Endotoxin Level	<1.0 EU/ug of recombinant protein as determined by the LAL method.
Caution	This product is distributed for laboratory research only.
Preparation and Storage	Store all components at -20°C.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for saCas9 Null Mutant enzyme	The Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) /Cas9 system is the latest RNA-guided, endonuclease tool in genome editing which allows for very specific genomic disruption and replacement. The saCas9 Null Mutant Protein is created by mutating both cleavage domains of the wild type saCas9. Such a saCas9 protein retains its ability to bind to genomic DNA through sgRNA:genomic DNA base pairing, however, the saCas9 Null Mutant does not induce cleavage. Therefore, this protein can provide a useful negative control for CRISPR experiments. In addition, binding of the Null Mutant can act as a roadblock to hinder transcription, thus offering a useful tool to achieve reversible knock-down of gene expression. The Cas9 nuclease from the bacteria Staphylococcus aureus, abbreviated saCas9, is gaining popularity as an alternative to spCas9 due to its relatively smaller size. The saCas9 PAM sequence is 5'-NNGRRN (preferably 5'-NNGRRT).
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-enzyme/sacas9-null-mutant/214190>