

saCas9 Null Mutant Enzyme

saCas9 Null Mutant Protein

CATALOG #
AAA214198

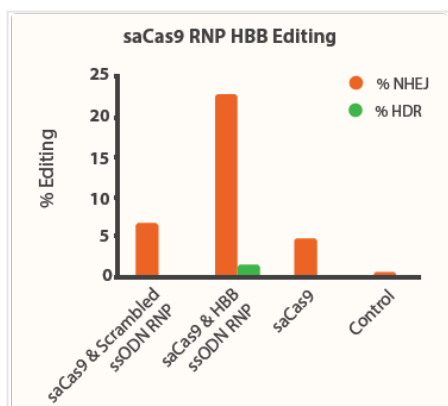
PRODUCT SYNONYMS

saCas9 Null Mutant; saCas9 Null Mutant Protein; saCas9 Null Mutant enzyme

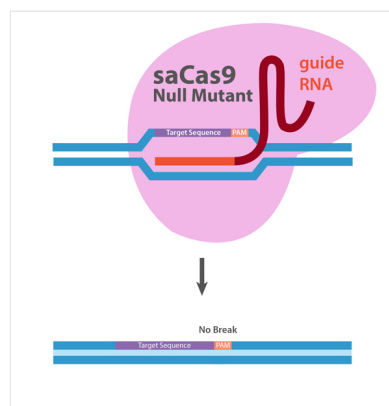
PRODUCT SPECIFICATIONS

Storage Buffer	10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM DTT, 300 mM NaCl, and 50% (v/v) Glycerol.
Preparation and Storage	Store all components at -20 degree C.

IMAGES



Application Data



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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).

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.