PRODUCT INFORMATION

dCas9-KRAB mRNA

v. 260201

Catalog number	CR00017-100UG / CR00017-1MG
Package	100 µg / 1 mg
Description	dCas9-KRAB mRNA encodes the dCas9-KRAB fusion protein, a tool for gene silencing and transcriptional repression. The dCas9 (dead Cas9) component targets DNA precisely without cutting, while the KRAB (Krüppel-associated box) domain recruits complexes to inhibit gene expression. Delivered as mRNA, dCas9-KRAB ensures rapid, high transient expression without nuclear uptake, making it ideal for research in gene function, genetic diseases, and therapeutic development. Croyez's dCas9-KRAB mRNA is generated through in vitro transcription, with a Cap1-modified 5' end and a poly(A) tail at the 3' end to mimic mature mRNAs. These optimizations enhance stability and performance, ensuring the mRNAs function like natural mature mRNAs in cells.
mRNA length	4982 nt
Base Composition	Unmodified bases
Concentration	1.0 mg/ mL
Cap Modification	Cap 1 structure
Poly A tail	Yes
Form	Liquid
Buffer	1 mM sodium citrate buffer, pH 6.4.
Storage	Products can be stored at -80°C or below. We recommend to aliquot the mRNA solution for a better storage. Avoid repeated freeze/thaw cycles.
Shipping	The products are shipped on dry ice and should be avoided for freeze-thaw cycles.
Application	Gene function research, gene regulation studies, therapeutic development, epigenetic research

For Research Use Only. Not for use in diagnostic or therapeutic procedures.