

Catalog number	CR00018-100UG / CR00018-1MG
Package	100 μ g / 1 mg
Description	<p>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.</p> <p>Croyez's dCas9-KRAB mRNA is produced through in vitro transcription, featuring a Cap1-modified 5' end, a poly(A) tail at the 3' end, and modified nucleotides to reduce immune response. These enhancements ensure stability and performance, allowing the mRNA to function like natural mature mRNAs in cells.</p>
mRNA length	4982 nt
Base Composition	N1-Me-pUTP (N1-m ψ)
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	<p>Products can be stored at -80°C or below.</p> <p>We recommend to aliquot the mRNA solution for a better storage. Avoid repeated freeze/thaw cycles.</p>
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.