

## PRODUCT INFORMATION

**hSpCas9 mRNA (m1 $\psi$  substitution)**

v. 240601

<b>Catalog number</b>	CR00012-100UG / CR00012-1MG
<b>Package</b>	100 $\mu$ g / 1 mg
<b>Description</b>	<p>hSpCas9 mRNA encodes the humanized version of the Cas9 protein, a versatile tool for precise genome editing. This mRNA enables efficient and transient expression of hSpCas9, facilitating targeted DNA cleavage at specific genomic loci. With its broad applicability and high efficiency, hSpCas9 mRNA finds extensive use in research, therapeutic development, and biotechnological applications.</p> <p>Croyez's hSpCas9 IVT 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>
<b>mRNA length</b>	4746 nt
<b>Base Composition</b>	N1-Me-pUTP (N1-m $\psi$ )
<b>Concentration</b>	1.0 mg/ mL
<b>Cap Modification</b>	Cap 1 structure
<b>Poly A tail</b>	Yes
<b>Form</b>	Liquid
<b>Buffer</b>	1 mM sodium citrate buffer, pH 6.4.
<b>Storage</b>	<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>
<b>Shipping</b>	The products are shipped on dry ice and should be avoided for freeze-thaw cycles.
<b>Application</b>	CRISPR screening, gene editing, genetic disease studies, therapeutic development, genetic modification

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