

# Alt-R™ CRISPR reagent stability

IDT has tested the stability of the Alt-R CRISPR reagents, including Cas nucleases, guide RNAs (gRNAs), and HDR enhancer. In addition, IDT has specifically tested the stability of ribonucleoproteins (RNPs), i.e., Cas nucleases in complex with gRNA. All of the tested reagents demonstrated high stability under a wide range of storage conditions as summarized [here](#).

		Storage temperature			
		-80°C	-20°C	4°C	23°C
Alt-R CRISPR nucleases	<ul style="list-style-type: none"> <li>Cas12a V3</li> <li>Cas12a Ultra</li> <li>Cas9 V3</li> <li>HiFi Cas9</li> <li>Cas9 D10A Nickase</li> </ul>	Stable up to 1 year in stock storage buffer	Stable up to 1 year in stock storage buffer	Stable up to 2 months in stock storage buffer	Stable up to 3 days in stock storage buffer
	<ul style="list-style-type: none"> <li>Cas12a V3 or Cas12a Ultra complexed with Alt-R CRISPR-Cas12a crRNA</li> <li>Cas9 V3 complexed with 2-part guide RNA, made of Alt-R CRISPR-Cas9 crRNA plus Alt-R CRISPR-Cas9 tracrRNA</li> </ul>	Stable up to 1 year in stock storage buffer	Stable up to 1 year in stock storage buffer	Stable up to 2 months in stock storage buffer	Stable up to 3 days in stock storage buffer
Alt-R CRISPR ribonucleoprotein complexes	<ul style="list-style-type: none"> <li>CRISPR-Cas9 crRNA</li> <li>CRISPR-Cas9 crRNA XT</li> <li>CRISPR-Cas9 sgRNA</li> </ul>	Stable up to 1 year: <ul style="list-style-type: none"> <li>lyophilized or</li> <li>hydrated in nuclease-free water or IDTE pH 7.5</li> </ul>	Stable up to 1 year: <ul style="list-style-type: none"> <li>lyophilized or</li> <li>hydrated in nuclease-free water or IDTE pH 7.5</li> </ul>	<ul style="list-style-type: none"> <li>Stable up to 1 year hydrated in nuclease-free water or IDTE pH 7.5</li> <li>Lyophilized: long-term storage not recommended at this temperature</li> </ul>	<ul style="list-style-type: none"> <li>Stable up to 1 year hydrated in nuclease-free water or IDTE pH 7.5</li> <li>Lyophilized: long-term storage not recommended at this temperature</li> </ul>
	CRISPR-Cas9 tracrRNA		Stable up to 2 years: <ul style="list-style-type: none"> <li>lyophilized or</li> <li>hydrated in nuclease-free water or IDTE pH 7.5</li> </ul>	Stable up to 2 years: <ul style="list-style-type: none"> <li>lyophilized or</li> <li>hydrated in nuclease-free water or IDTE pH 7.5</li> </ul>	<ul style="list-style-type: none"> <li>Stable up to 1 year hydrated in nuclease-free water or IDTE pH 7.5 (not tested beyond 1 year)</li> <li>Stable up to 2 years lyophilized</li> </ul>
	Labeled tracrRNA, ATTO™ 550		Stable up to 2 years: <ul style="list-style-type: none"> <li>lyophilized or</li> <li>hydrated in nuclease-free water or IDTE pH 7.5</li> </ul>	<ul style="list-style-type: none"> <li>Stable up to 6 months hydrated in nuclease-free water or IDTE pH 7.5</li> <li>Stable lyophilized up to 18 months</li> </ul>	<ul style="list-style-type: none"> <li>Stable up to 6 months hydrated in nuclease-free water or IDTE pH 7.5</li> <li>Stable lyophilized up to 18 months</li> </ul>
	gRNA 2-part complex, made of CRISPR-Cas9 crRNA plus CRISPR-Cas9 tracrRNA		Stable up to 2 years in IDTE pH 7.5	Stable up to 6 months in IDTE pH 7.5	
	HDR Enhancer	Stable up to 1 year stored at stock concentration	Stable up to 1 year stored at stock concentration	Stable up to 1 year stored at stock concentration	Stable up to 1 year stored at stock concentration

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