

ArciTect™ crRNA

Custom-designed CRISPR RNA for guide RNA generation in CRISPR-Cas9 genome editing

Catalog #	76010	2 nmol
	76011	10 nmol
	76012	20 nmol



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Product Description

ArciTect™ crRNA is a custom CRISPR RNA (crRNA), one of two synthetic RNA components required to make a guide RNA (gRNA) template for CRISPR-Cas9 genome editing. ArciTect™ crRNA contains a user-specified 19 - 21 base sequence complementary to the genomic location to be cleaved, and a linker sequence complementary to ArciTect™ tracrRNA (Catalog #76016), allowing fast and efficient gRNA duplex formation. ArciTect™ crRNA should be designed so that it is directly upstream of a protospacer adjacent motif (PAM) site (NGG).

Properties

Storage:	Store at -80°C. Alternatively, store at -20°C for up to 6 months.
Shelf Life:	Stable for 24 months from date of manufacture (MFG) on label.
Format:	Lyophilized

Materials Required But Not Included

- Nuclease-free water (e.g. Sigma Catalog # LSKNF0500)

Directions for Use

The following protocol is for preparation of a 200 µM crRNA stock solution.

1. Briefly centrifuge the vial before opening.
2. Add nuclease-free water as outlined in Table 1.

Table 1. Preparation of 200 µM* crRNA Stock Solution

ArciTect™ crRNA	VOLUME OF NUCLEASE-FREE WATER (µL)
2 nmol (Catalog #76010)	10
10 nmol (Catalog #76011)	50
20 nmol (Catalog #76012)	100

*200 µM is equal to 200 pmol/µL

3. Mix thoroughly. If not used immediately, aliquot and store at -80°C for up to 1 month. After thawing the aliquots, use immediately. Do not re-freeze.

For complete instructions on CRISPR-Cas9 genome editing, refer to the Technical Bulletin: Human Pluripotent Stem Cell Genome Editing Using the ArciTect™ CRISPR-Cas9 System (Document #27084), available at www.stemcell.com or contact us to request a copy.

Related Products

For related products, including other genome editing tools, specialized cell culture and storage media, supplements, antibodies, cytokines, and small molecules, visit www.stemcell.com or contact us at techsupport@stemcell.com.

References

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