

## RNA Aptamer Corn sodium

<b>Cat. No.:</b>	HY-153843
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

## RNA Aptamer Corn

### BIOLOGICAL ACTIVITY

#### Description

RNA Aptamer Corn (sodium) is a 28-nt-long aptamer that is substantially shorter than Spinach and Spinach2 and exhibits bright red fluorescence upon binding DFHO (a soluble analog of the intrinsic fluorophore of red fluorescent protein), RNA Aptamer Corn (sodium) can be used to visualize RNA expression or localization in live cells which have been soaked with chromophores. The Corn-DFHO does not become appreciably cytotoxic when illuminated. And most importantly, Corn-DFHO exhibits markedly increased photostability compared to other aptamer-chromophore complexes both in vitro and in vivo. (36 nt Corn construct: 5'-GGCGCGAGGAAGGAGGUCUGAGGAGGUCACUGCGCC-3'; A 36-nt RNA construct, comprised of the 28-nt minimal Corn sequence extended proximally with a 4 base-pair stem.)

### REFERENCES

- [1]. Song W, Filonov GS, Kim H, et al. Imaging RNA polymerase III transcription using a photostable RNA-fluorophore complex. *Nat Chem Biol.* 2017;13(11):1187-1194.
- [2]. Sjekloća L, Ferré-D'Amaré AR. Binding between G Quadruplexes at the Homodimer Interface of the Corn RNA Aptamer Strongly Activates Thioflavin T Fluorescence. *Cell Chem Biol.* 2019;26(8):1159-1168.e4.
- [3]. Gu Y, Huang LJ, Zhao W, et al. Living-Cell MicroRNA Imaging with Self-Assembling Fragments of Fluorescent Protein-Mimic RNA Aptamer. *ACS Sens.* 2021;6(6):2339-2347.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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