RNA Aptamer Broccoli sodium

Cat. No.: HY-153845

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

RNA Aptamer Broccoli

BIOLOGICAL ACTIVITY

Description	RNA Aptamer Broccoli (sodium) is a 49-nt-long aptamer that is substantially shorter than Spinach and Spinach2 and exhibits bright green fluorescence upon binding DFHBI or DFHBI-1T (soluble analogs of the fluorophore of green fluorescent protein). RNA Aptamer Broccoli (sodium) can be used to visualize RNA expression or localization in live cells. In vitro Broccoli exhibits a similar high folding efficiency as Spinach2, but exhibits markedly lower dependence on magnesium for folding and increased thermostability. Additionally, unlike Spinach2, Broccoli does not require the use of a tRNA scaffold to promote its folding in vivo.

REFERENCES

[1]. Filonov GS, Moon JD, Svensen N, Jaffrey SR. Broccoli: rapid selection of an RNA mimic of green fluorescent protein by fluorescence-based selection and directed evolution. J Am Chem Soc. 2014;136(46):16299-16308. doi:10.1021/ja508478x

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