AP1153 aptamer sodium

Cat. No.: HY-160045

Target: Cholecystokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

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

AP1153 aptamer (sodium)

BIOLOGICAL ACTIVITY

Description	AP1153 aptamer sodium is a DNA aptamer that specifically binds to the cholecystokinin receptor CCKBR (Kd: ~15 pM), but does not activate CCKBR-related signaling pathways. AP1153 aptamer sodium is internalized by pancreatic ductal adenocarcinoma (PDAC) cells in a receptor-mediated manner. AP1153 aptamer sodium can bioconjugate to the surface of fluorescent nanoparticles to facilitate nanoparticle delivery to PDAC tumors in vivo[1].
IC_{50} & Target	Kd: ~15 pM (CCKBR)[1]

REFERENCES

[1]. Clawson GA, Abraham T, Pan W, Tang X, Linton SS, McGovern CO, Loc WS, Smith JP, Butler PJ, Kester M, Adair JH, Matters GL. A Cholecystokinin B Receptor-Specific DNA Aptamer for Targeting Pancreatic Ductal Adenocarcinoma. Nucleic Acid Ther. 2017 Feb;27(1):23-35.

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