Product Data Sheet

Cat#: AD-137-U
Cat#: AD-137-B, Biotin labeled
Cat#: AD-137-F, FITC labeled

Product Description: Protein Kinase C-d

Aptamer Type: DNA

Sequence: 5'-GCCAGGGGTTCCACTACGTAGAACACGACGGGAATACTGACTCTCCCCCATGTACCAGGGGGCAGAGAGAAGGGC-3'; 75-mer

Size 100 nM

Mol. Wt: 23218.06 g/mole

Purity: >95%

Affinity: 122 nM (reported value)

Comments: High-affinity DNA aptamers for PKC-delta were selected by capillary electrophoresis based on SELEX

Notes: Fluorescently tagged PB9 aptamer can specifically recognize PKCδ under in vitro conditions with a Kd value of 22 nM. It helps to study the spatiotemporal dynamics and activation of individual endogenous PKC isoforms during various cell signalling processes such as cell growth, differentiation, apoptosis and tumor development.

References: Mallikaratchy, P., et al. "Selection of DNA ligands for protein kinase C-d." Chemical Communications, 2006 (2006): 3229-3231.

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