

## Product Data Sheet

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<b>Cat#:</b>	AD-137-U
<b>Cat#:</b>	AD-137-B, Biotin labeled
<b>Cat#:</b>	AD-137-F, FITC labeled
<b>Product Description:</b>	Protein Kinase C-d
<b>Aptamer Type:</b>	DNA
<b>Sequence:</b>	5'- GCCAGGGTTCCACTACGTAGAACACGACGGGAATACTGACTCTCCCCATGTACCAGGGGGCAGAGAGAAGGGC-3'; 75-mer
<b>Size</b>	100 nM
<b>Mol. Wt:</b>	23218.06 g/mole
<b>Purity:</b>	>95%
<b>Affinity:</b>	122 nM (reported value)
<b>Comments:</b>	High-affinity DNA aptamers for PKC-delta were selected by capillary electrophoresis based on SELEX
<b>Notes:</b>	Fluorescently tagged PB9 aptamer can specifically recognize PKC $\delta$ 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.
<b>References:</b>	Mallikaratchy, P., et al. "Selection of DNA ligands for protein kinase C-d." Chemical Communications, 2006 (2006): 3229-3231.

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