ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat#: AD-139-U
Cat#: AD-139-B, Biotin labeled
Cat#: AD-139-F, FITC labeled

Product Description: Ricin Toxin (C5)

Aptamer Type: DNA

Sequence: 5'-ATAGGAGTCACGACGACCAGAACCGTAGGTTCGGGGCGGAGTGGTCCGGAAGGTGGCGTGGTATGTGCGTCTACCTCTTGACTAAT-3'; 86-mer

Size **Custom**

Mol. Wt: 26766.37 g/mole

Purity: >95%

Affinity: 58 nM (reported value)

Comments: n/a

Notes: Aptamers A3, C1, and C5 which differ by one base from each other were found to possess high affinity and specificity for ricin with the Kd values in the low nanomolar range, and did not recognize abrin toxin similar to ricin in the structures and properties, or BSA. A3 isolated by affinity chromatography shared extensive sequence similarity with C1 and C5 derived from CE-SELEX.

References: Tang, Jijun, et al. "The DNA aptamers that specifically recognize ricin toxin are selected by two in vitro selection method." Electrophoresis, 27 (2005): 1303-1311.

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