

Product Data Sheet

Cat#: AD-127-U
Cat#: AD-127-B, Biotin labeled
Cat#: AD-127-F, FITC labeled

Product Description: L-Tyrosinamide (pe35)

Aptamer Type: DNA

Sequence: 5'-AATTCGCTAGCTGGAGCTTGGATTGATGTGGTGTGTGAGTGCGGTGCC-3'; 49-mer

Size 100 nM

Mol. Wt: 15261.94 g/mole

Purity: >95%

Affinity: 45 nM (reported value)

Comments: Contains a horseradish peroxidase-like DNAzyme with a region complementary to the Lysozyme Aptamer DNA Blocker (highlighted green in the structure). In the presence of the blocker, the two oligonucleotides hybridize, inactivating the DNAzyme.

Notes: After 15 SELEX cycles using L-Tyrosinamide ss DNA aptamer immobilized on an affinity chromatography column, the percentage of aptamers specifically eluted from the affinity column with free L-Tyrosinamide was 55% of the total. Aptamers were subcloned and sequenced, allowing the identification of a highly conserved consensus sequence, and showed a K(d) value for L-Tyrosinamide of 45 μ M which constitute basis of *in vitro* evolution protocols and structure-based drug design.

References: Vianini et al. "In vitro selection of DNA aptamers that bind L-tyrosinamide." *Bioorganic & Medicinal Chemistry*, 9 (2001): 2543-2548.

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