

## Product Data Sheet

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**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  $\mu$ 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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