

Product Data Sheet

Cat#: AD-117-U
Cat#: AD-117-B, Biotin labeled
Cat#: AD-117-F, FITC labeled

Product Description: Hematoporphyrin IX

Aptamer Type: DNA

Sequence: 5'-
TAGGGAATTCGTCGACGGATCCCAATGGGGTCGGGCGGGCCGGGTGTCATGGTGGACGGAGATGGGACGTAGAGGG
CGGTCTGCAGGTCGACGCATGCGCCG-3'; 102-mer

Size 100 nM

Mol. Wt: 31939.63 g/mole

Purity: >95%

Affinity: 1.6 μ M (reported value)

Comments: Forms a parallel G-quartet structure.

Notes: DNA aptamers that bind to hematoporphyrin IX (HPIX) were isolated using an in vitro selection technique. Most aptamers obtained after the 7th and 10th rounds contained guanine-rich sequences. Binding assay using fluorescence polarization technique and structural analysis by CD spectra revealed that the parallel guanine-quartet structure of the aptamer participates in the recognition of HPIX.

References: Okazawa, A., et al. "In vitro selection of hematoporphyrin binding DNA aptamers." *Bioorganic & Medicinal Chemistry Letters*

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