

Product Data Sheet

Cat#: AD-128-U
Cat#: AD-128-B, Biotin labeled
Cat#: AD-128-F, FITC labeled

Product Description: DNAzymeMB (Part of Lysozyme Aptasensor)

Aptamer Type: DNA

Sequence: 5'-AGGGACGGGCTAAGTAACTGTGGAGGGT-3'; 28-mer

Size 100 nM

Mol. Wt: 8798.78 g/mole

Purity: >95%

Affinity: 0.1 fM (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: By rationally employing enzymes for signal amplification, an ultrasensitive aptasensor was developed and successfully tested in a system designed to detect lysozyme with a detection limit of 0.1 fM. This detection limit is nearly three orders of magnitude lower than those of any previously reported DNAzyme-based aptasensors.

References: Fu et al. "An ultrasensitive peroxidase DNAzyme-associated aptasensor that utilizes a target-triggered enzymatic signal amplification strategy." *Chemical Communications*, 47(2011): 9876-9878.

150813V

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com