

Product Data Sheet

Cat#: AD-105-U
Cat#: AD-105-B, Biotin labeled
Cat#: AD-105-F, FITC labeled

Product Description: Anti-His Tag (6H7)

Aptamer Type: DNA

Sequence: 5'-GCTATGGGTGGTCTGGTTGGGATTGGCCCCGGGAGCTGGC-3'; 40-mer

Size 100 nM

Mol. Wt: 12488.10 g/mole

Purity: >95%

Affinity: 4.6 nM (reported value)

Comments: Forms a G-quartet

Notes: In order to overcome metal leaching when IMAC purification is performed for His-tagged proteins, aptamer based purification systems were established. Two different aptamers directed against the His-tag were immobilized on magnetic beads covalently. The resulting aptamer-modified magnetic beads were characterized and successfully applied for purification of different His-tagged proteins from complex E. coli cell lysates.

References: Kokpinar, et al. "Aptamer-Based Downstream Processing of His-Tagged Proteins Utilizing Magnetic Beads." *Biotechnology and Bioengineering*, 108 (2011):2371-2379.

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