Product Data Sheet

Cat#: AP-314-U
Cat#: AP-314-B, Biotin labeled
Cat#: AP-314-F, FITC labeled

Product Description: Human Gastric Adenocarcinoma

Aptamer Type: Peptide

Sequence: CGNSNPKSC; 9-mer

Size 5 mg

Mol. Wt: 991.17 g/mole

Purity: >95%

Affinity: n/a

Comments: n/a

Notes: There was around 137.26-fold increase in the number of the selected phage in gastric cancer xenograft in comparision with control organs brain, heart, liver, spleen and kidney. Immunohistochemistry in mouse and human tissue showed that this phage peptide only bind to the endothelial cells of human gastric cancer. This peptide was observed only specific binding to HUVEC not to SGC-7901, Eca-109, LoVo and Hep-G2 by ELISA. The competitive and inhibitory result between the synthetic CGNSNPKSC peptide and the phage displaying the peptide CGNSNPKSC on HUVEC and in vivo was also confirmed its specific binding effect.

References: Zhi et al. "Characterization of a Specific Phage-Displayed Peptide Binding to Vasculature of Human Gastric Cancer." Cancer Biology & Therapy, 3(2004): 1232-1235.

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