ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat#: AP-328-U
Cat#: AP-328-B, Biotin labeled
Cat#: AP-328-F, FITC labeled

Product Description: PC-3 (G1)

Aptamer Type: Peptide

Sequence: IAGLATPGWSHWLAL; 15-mer

Size 5 mg

Mol. Wt: 837.98 g/mole

Purity: >95%

Affinity: n/a

Comments: n/a

Notes: One resulting phage clone (G1) displaying the peptide sequence IAGLATPGWSHWLAL was fluorescently labeled with the near-infrared fluorophore AlexaFluor 680 and was evaluated both in vitro and in vivo for its ability to bind and target PC-3 prostate carcinomas. The fluorescently labeled phage clone (G1) had a tumor-to-muscle ratio of approximately 30 in experiments. In addition, prostate tumors (PC-3) were readily detectable by optical-imaging methods.

References: Beck et al. "Indentification of a peptide that interacts with Nestin protein expressed in brain cancer cells." Biomaterials, 32(2011): 8518-8528.

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Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, San Antonio, TX 78244, USA; **Email**: service@4adi.com
☎ (800) 786-5777; (210) 561-9515; **Fax**: (210) 561-9544; **Web Site**: www.4adi.com