

## Product Data Sheet

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**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. "Identification of a peptide that interacts with Nestin protein expressed in brain cancer cells." *Biomaterials*, 32(2011): 8518-8528.

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