

## Product Data Sheet

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**Cat#:** AP-305-U  
**Cat#:** AP-305-B, Biotin labeled  
**Cat#:** AP-305-F, FITC labeled

**Product Description:** Breast Cancer Cells (a-peptide 18)

**Aptamer Type:** Peptide

**Sequence:** WXEAAYQRFL; 10-mer

**Size** 5 mg

**Mol. Wt:** 1183.3 g/mole

**Purity:** >95%

**Affinity:** n/a

**Comments:** n/a

**Notes:** 10-mer  $\alpha$ -peptide with a replacement of two or three amino acids in the sequence of 18 with d-residues or  $\beta(3)$ -amino acids. Such replacement maintained the specificity for cancer cells (MDA-MB-435, MDA-MB-231, and MCF-7) with low affinity for control noncancerous cells (MCF-10A and HUVEC), showed an increase in secondary structure, and rendered the analogues completely stable to human serum and liver homogenate from mice.

**References:** Soudy et al. "Proteolytically Stable Cancer Targeting Peptides with High Affinity for Breast Cancer Cells." Journal of Medicinal Chemistry, 54(2011): 7523-7534

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