

## Product Data Sheet

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**Cat#:** AP-334-U  
**Cat#:** AP-334-B, Biotin labeled  
**Cat#:** AP-334-F, FITC labeled

**Product Description:** VEGF receptor Flt-1 (F56)

**Aptamer Type:** Peptide

**Sequence:** WHSDMEWWYLLG; 12-mer

**Size** 5 mg

**Mol. Wt:** 1759.02 g/mole

**Purity:** >95%

**Affinity:** n/a

**Comments:** Selectively binds VEGF receptor Flt-1

**Notes:** A peptide F56 (WHSDMEWWYLLG) almost abolished VEGF binding to receptor Flt-1 in vitro. In vivo, F56 fused with DHFR (DHFR-F56) inhibited angiogenesis in a CAM assay. Moreover, DHFR-F56 significantly inhibited the growth of nodules of human gastric cancer cell line MGC-803 in BALB/c nude mice. Histological analyses showed that necrosis of the implanted tumor was markedly enhanced following treatment with DHFR-F56.

**References:** An et al. "SUPPRESSION OF TUMOR GROWTH AND METASTASIS BY A VEGFR-1 ANTAGONIZING PEPTIDE IDENTIFIED FROM A PHAGE DISPLAY LIBRARY." International Journal of Cancer, 111(2004): 165–173.

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