

## Product Data Sheet

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**Cat#:** AP-335-U  
**Cat#:** AP-335-B, Biotin labeled  
**Cat#:** AP-335-F, FITC labeled

**Product Description:** VEGF receptor KDR and Flt-1 (v107)

**Aptamer Type:** Peptide

**Sequence:** GGNECDAIMWEWECFERL; 19-mer

**Size** 5 mg

**Mol. Wt:** 2606.94 g/mole

**Purity:** >95%

**Affinity:** 0.6  $\mu$ M (reported value)

**Comments:** n/a

**Notes:** NMR studies of a representative peptide from the most potent class of these peptide antagonists, v107 (GGNECDAIMWEWECFERL), were undertaken to characterize its interactions with VEGF. The solution structure of the VEGF receptor-binding domain-v107 complex was determined using 3940 (1970 per VEGF monomer) internuclear distance and 476 (238 per VEGF monomer) dihedral angle restraints derived from NMR data obtained using samples containing either (13)C/(15)N-labeled protein plus excess unlabeled peptide or (13)C/(15)N-labeled peptide plus excess unlabeled protein

**References:** Pan et al. "Solution structure of a phage-derived peptide antagonist in complex with vascular endothelial growth factor." Journal of Molecular Biology, 316(2002): 769-787.

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