

Product Data Sheet

Cat#:	AP-336-U
Cat#:	AP-336-B, Biotin labeled
Cat#:	AP-336-F, FITC labeled
Product Description:	VEGF receptor KDR/Flk-1 (K237)
Aptamer Type:	Peptide
Sequence:	HTMYHHYQHHL; 12-mer
Size	5 mg
Mol. Wt:	1803.06 g/mole
Purity:	>95%
Affinity:	n/a

Comments: Disrupts the interaction between VEGF and the KDR receptor and causes inhibition of angiogenesis and tumor growth.

Notes: NMR studies of a representative peptide from the most potent class of these peptide antagonists, v107 (GGNECDAIRMWEWECFERL), 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: Hetian et al. "A novel peptide isolated from a phage display library inhibits tumor growth and metastasis by blocking the binding of vascular endothelial growth factor to its kinase domain receptor." Journal of Biological Chemistry, 277(2002): 43137-42.

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