Product Data Sheet

Cat#: AP-308-U
Cat#: AP-308-B, Biotin labeled
Cat#: AP-308-F, FITC labeled

Product Description: Endothelial Cells (P36)

Aptamer Type: Peptide

Sequence: SQRWTALWQWIG; 12-mer

Size 5 mg

Mol. Wt: 1667.95 g/mole

Purity: >95%

Affinity: 2.2 nM (reported value)

Comments: n/a

Notes: Binds predominantly to perfused injured versus control vessel segments. It was additionally found that P36 binds with a 700-fold higher affinity in vitro to endothelial cells stimulated by treatment with LPS and TNF-alpha compared with unstimulated endothelial cells. The amino acid sequence of P36 reveals high homology to alpha(4)beta(1)-integrin, which mediates leukocyte migration from the vasculature at sites of inflammation via binding to cellular adhesion molecules, such as VCAM.

References: Herrmann et al. "Selection of cell specific peptides in a rat carotid injury model using a random peptide-presenting bacterial library." Bichemica et Biophysica Acta, 1472(1999): 529-536.

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