

## Product Data Sheet

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**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." *Biochimica et Biophysica Acta*, 1472(1999): 529-536.

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**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)