

## Product Data Sheet

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**Cat#:** AP-330-U  
**Cat#:** AP-330-B, Biotin labeled  
**Cat#:** AP-330-F, FITC labeled

**Product Description:** Thrombopoietin Receptor

**Aptamer Type:** Peptide

**Sequence:** IEGPTLRQWLAARA; 14-mer

**Size** 5 mg

**Mol. Wt:** 1581.85 g/mole

**Purity:** >95%

**Affinity:** 2 nM (reported value)

**Comments:** The authors also created a dimerized version of AF12505 (AF13948). This peptide aptamer possessed an IC<sub>50</sub> of 0.5 nM and EC<sub>50</sub> 4000 times that of the monomer.

**Notes:** High affinity (dissociation constant approximately 2 nanomolar) that stimulates the proliferation of a TPO-responsive Ba/F3 cell line with a median effective concentration (EC<sub>50</sub>) of 400 nanomolar. Dimerization of this peptide by a carboxyl-terminal linkage to a lysine branch produced a compound with an EC<sub>50</sub> of 100 picomolar, which was equipotent to the 332-amino acid natural cytokine in cell-based assays.

**References:** Cwirla et al. "Peptide Agonist of the Thrombopoietin Receptor as Potent as the Natural Cytokine." *Science*, 276(1997): 1696-1699.

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