ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

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 IC50 of 0.5 nM and EC50 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 (EC50) of 400 nanomolar. Dimerization of this peptide by a carboxyl-terminal linkage to a lysine branch produced a compound with an EC50 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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