

SAMPLE

Statement of Work

Development of Peptide Inhibitors of the “Cancer” Receptor (CR)

Task 1. To identify the minimal region of the CR polypeptide able to inhibit intact CR when co-expressed in cultured cells (Months 1-18):

- a. Develop a series of plasmids for expressing the CR open reading frame (Months 1-7).
- b. Perform assays to ascertain which fragments of CR block DNA-binding (Months 7-18).
- c. Confirm that fragments of the CR open reading frame that block DNA-binding activity also inhibit CR function *in vivo* (Months 18-24).

Task 2. To identify short peptides modeled after the receptor that act as inhibitors of DNA-binding and subunit association (Months 18-26):

- a. Obtain synthetic CR peptides (Months 18-21).
- b. Test the effect of synthetic peptides on the DNA-binding activity of CR (Months 20-24).
- c. Characterize the inhibitory potency of active peptides and attempt to optimize the effect by testing additional overlapping peptides (Months 21-36).
- d. Perform feasibility experiments to assess the ability of selected peptides to inhibit CR function in cultured cells (Months 20-36).