ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat#: AP-307-U, **5 mg**
Cat#: AP-307-B, **1 mg** Biotin labeled
Cat#: AP-307-F, **1 mg**, FITC labeled

Product Description: Concanavalin A Lectin

Aptamer Type: Peptide

Sequence: DVFYPYPYASGS; 12-mer

Mol. Wt: 1501.65 g/mole

Purity: >95%

Affinity: 46 µM (reported value)

Comments: n/a

Notes: A dodecapeptide containing the consensus sequence Tyr-Pro-Tyr was found to bind Con A with an affinity (dissociation constant, Kd) of 46 microM, comparable to that of a known carbohydrate ligand, methyl alpha-D-mannopyranoside (Kd of 89 microM). In addition, the peptide inhibited precipitation of the alpha-glucan dextran 1355 by Con A.

References: Oldenburg et al. " Peptide ligands for a sugar-binding protein isolated from a random peptide library." PNAS, 89(1992):5393-5397.

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