Product Data Sheet

Cat#: AP-331-U
Cat#: AP-331-B, Biotin labeled
Cat#: AP-331-F, FITC labeled

Product Description: Trypsin

Aptamer Type: Peptide

Sequence: TTKIFT; 6-mer

Size 5 mg

Mol. Wt: 737.96 g/mole

Purity: >95%

Affinity: n/a

Comments: n/a

Notes: A process of directed evolution in the search for molecules exhibiting certain desirable properties is reported. By repeating a cycle of peptide synthesis, evaluation of the trypsin inhibitory activities of these peptides and subsequent selection and transformation based on a genetic algorithm, it is possible artificially to induce the evolution of a family of peptides and improve their biological activities. Commencing with a set of 24 randomly generated hexapeptides, a progressive improvement from 16 to 50% average inhibitory activity over six generations, with maximum activities of 80–90% is observed.

References: Yokobayashi et al. "Directed evolution of trypsin inhibiting peptides using a genetic algorithm." Journal of the Chemical Society, 1(1996): 2435-2437.

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