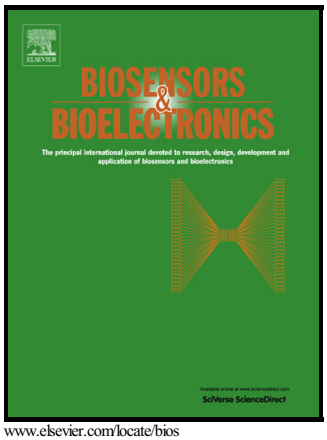

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A "turn-on" fluorescent receptor for detecting tyrosine phosphopeptide using the surface imprinting procedure and the epitope approach

Dong-Yan Li,[a] Ya-Ping Qin,[a] Hong-Yu Li,[a] Xi-Wen He,[a] Wen-You Li,*[a] and Yu-Kui Zhang[a, b]

[a] *State Key Laboratory of Medicinal Chemical Biology (Nankai University), Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), and Research Center for Analytical Sciences, College of Chemistry, Nankai University, Tianjin 300071, China*

[b] *National Chromatographic Research and Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116011, P. R. China*

* Corresponding author. Tel.: +86 22 2349 4962; fax: +86 22 23502458.

E-mail address: wyli@nankai.edu.cn (W.-Y. Li).

Abstract

A new strategy for the manufacture of a turn-on fluorescent molecularly imprinted polymer (CdTe/SiO_2/MIP) receptor for detecting tyrosine phosphopeptide (pTyr peptide) was proposed. The receptor was prepared by the surface imprinting procedure and the epitope approach with silica-capped CdTe quantum dots (QDs) as core substrate and fluorescent signal, phenylphosphonic acid (PPA) as the dummy template, 1-[3-(trimethoxysilyl) propyl] urea as the functional monomer, and