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PII: S0039-9140(14)00427-5
DOI: http://dx.doi.org/10.1016/j.talanta.2014.05.043
Reference: TAL14803

To appear in: *Talanta*

Received date: 27 February 2014
Revised date: 5 May 2014
Accepted date: 7 May 2014

Cite this article as: Jinquan Liu, Xiaoxiao He, Kemin Wang, Yonghong Wang, Genping Yan, Yinfei Mao, Amplified electrochemical detection of protein kinase activity based on gold nanoparticles/multi-walled carbon nanotubes nanohybrids, *Talanta,* http://dx.doi.org/10.1016/j.talanta.2014.05.043

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Abstract

A sensitive and simple electrochemical strategy has been developed for assay of protein kinase A (PKA) activity and inhibition using gold nanoparticles/multi-walled carbon nanotubes (AuNPs/MWNTs) nanohybrids. Key features of this assay included intrinsic peroxidase-like activity of positively-charged gold nanoparticles (+AuNPs) and signal transduction and amplification of multi-walled carbon nanotubes (MWNTs). In this assay, an N-terminally cysteine-containing peptide was