**Analytical and Bioanalytical Chemistry** 

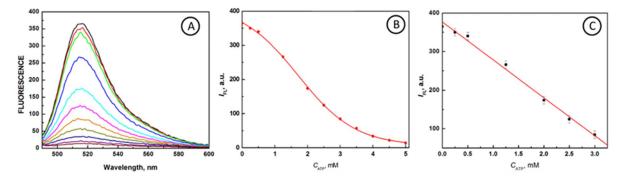
**Electronic Supplementary Material** 

Monitoring of dynamic ATP level changes by oligomycin-modulated ATP synthase inhibition in SW480 cancer cells using fluorescent "On-Off" switching DNA aptamer

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## Detection of ATP using fluorescent ATP aptamer (Apt(ATP))

A response of an Apt(ATP) probe to the higher concentrations of ATP, in the mM range, is presented in Figure S1. The measurements under these conditions are characterized with a lower probe sensitivity, necessary to cover the larger dynamic range, including the elevated ATP levels in some cells under extreme conditions.



**Fig. S1** (A) Fluorescence spectra for ATP aptamer after addition of ATP at different concentrations from 0 to 5 mM; (B) Dependence of  $I_{FL}$  vs.  $C_{ATP}$  in a wide range from 0 to 5 mM ATP; (C) Linear part of the dependence of  $I_{FL}$  vs.  $C_{ATP}$