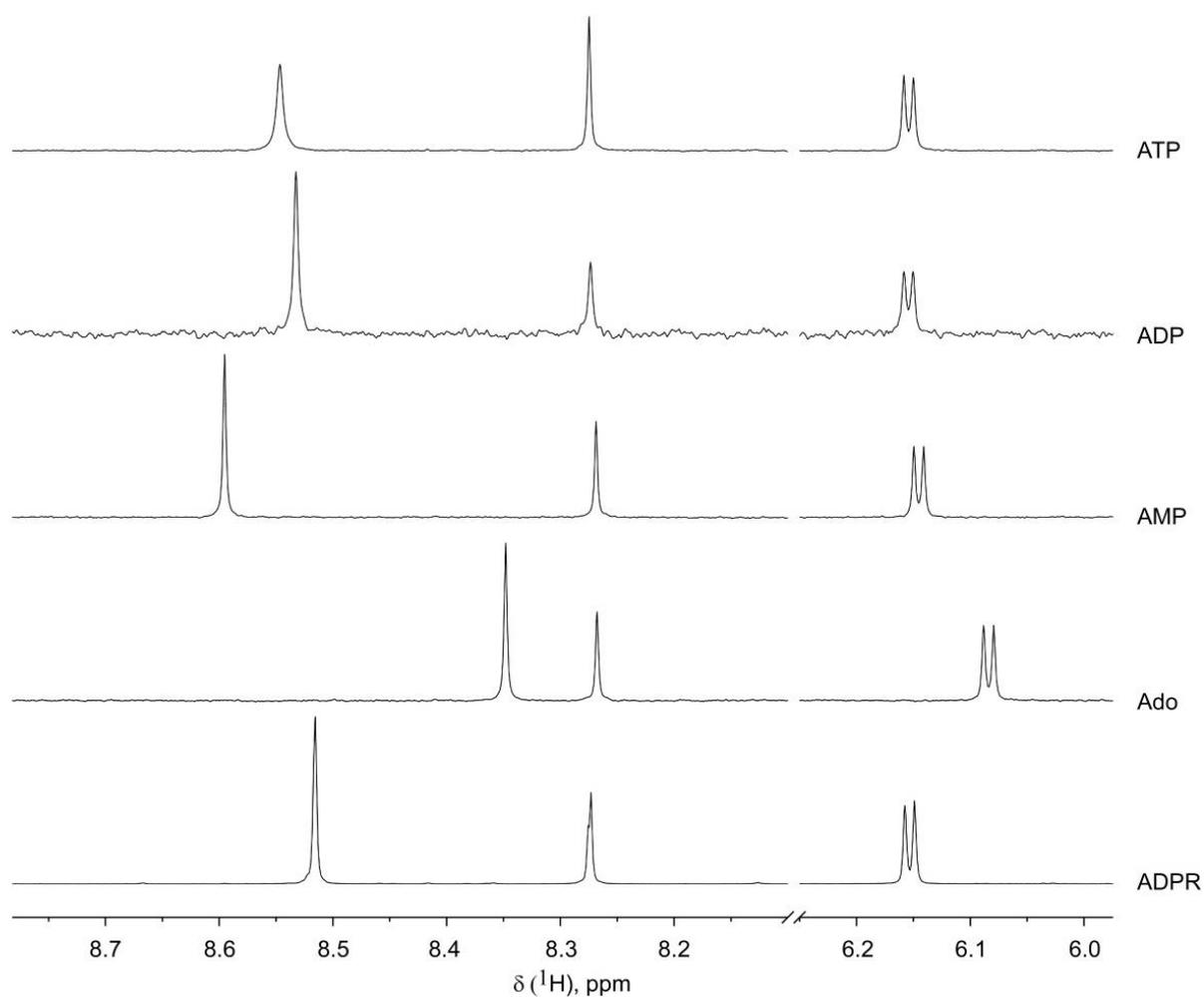
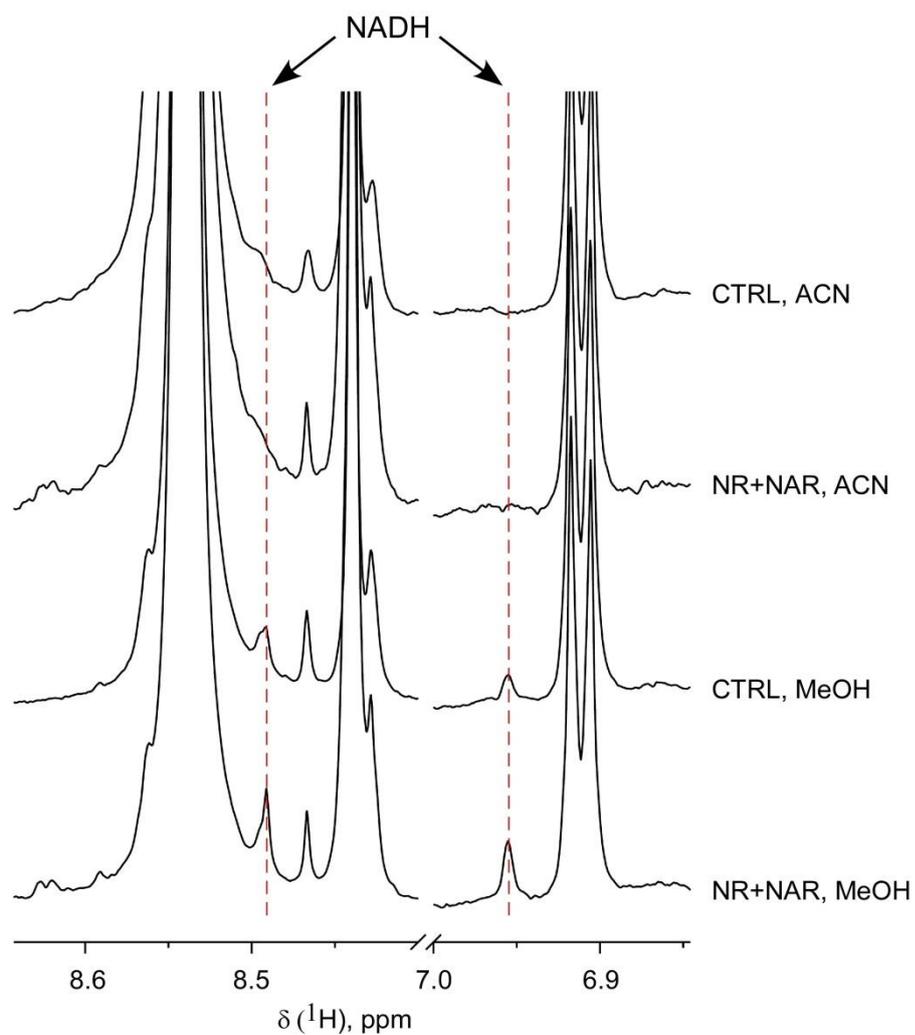


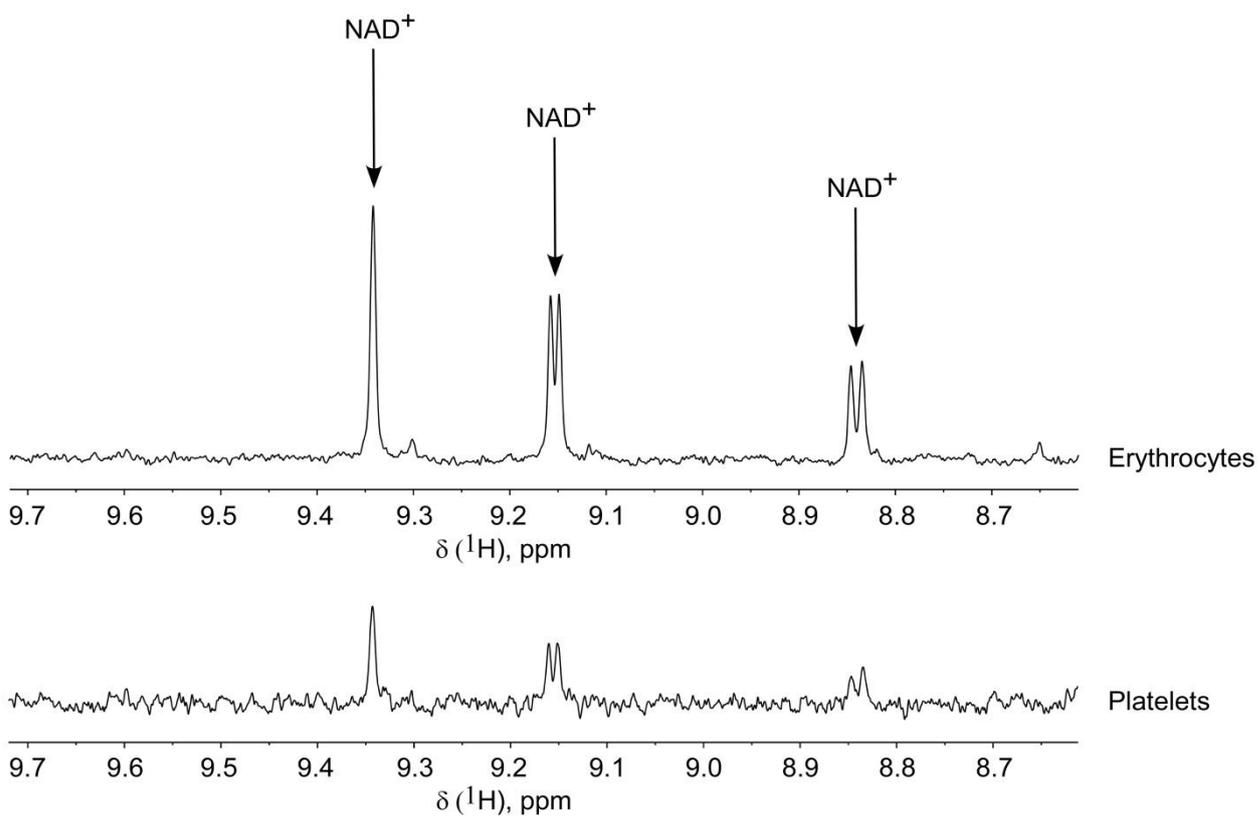
## Supplementary Data



**Figure S1.** 700 MHz <sup>1</sup>H NMR spectra of adenosine-containing compounds. Metabolites were dissolved in 50 mM sodium phosphate buffer in D<sub>2</sub>O (pH 6.5) and analyzed by NMR spectroscopy.



**Figure S2.** Detection of NADH in human cell extracts. Characteristic region of  $^1\text{H}$  NMR spectra of cell extracts obtained from HEK293 cells cultivated in the presence of Nam (CTRL) or additionally with NR and NAR. Cell extracts were prepared using acetonitrile (ACN) or methanol (MeOH). nt = 8192.



**Figure S3.** Detection of  $\text{NAD}^+$  in human blood cells. Characteristic region of  $^1\text{H}$  NMR spectrum of cell extracts obtained from isolated human erythrocytes and platelets. nt = 10240.