

Probing the Intracellular Glutathione
Redox Potential by In-Cell
NMR Spectroscopy

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Angew. Chem. 2014, 126

DOI: 10.1002/ange.201308004

Abbildung 3 b dieser Zuschrift trägt falsche Zahlenwerte an der y-Achse. Die korrekte Fassung ist hier gezeigt. Die Autoren entschuldigen sich für dieses Versehen.

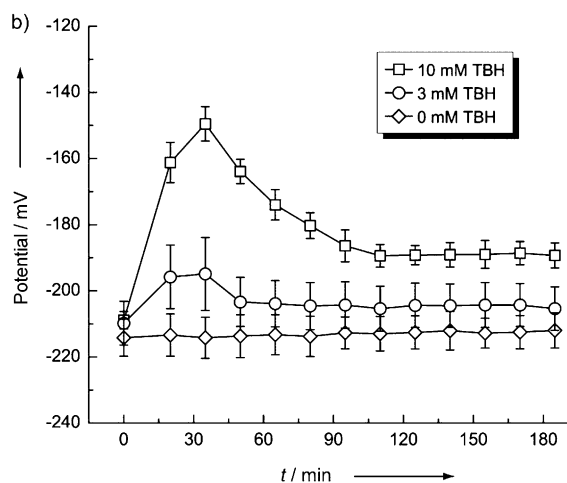


Abbildung 3. Monitoring of the intracellular glutathione redox potential. ... b) Cellular concentrations of GSH* and GSSG* were calculated based on the calibration derived from cell samples examined by NMR spectroscopy and measured externally by the DTNB-GSSG reductase recycling assay (DTNB: 5,5'-dithiobis(2-nitrobenzoic acid); see the Supporting Information, Figure S3). The intracellular glutathione redox potential was calculated by using the Nernst equation with a standard redox potential ($E^{\circ}_{\text{GSSG}/2\text{GSH}}$) of -240 mV at pH 7.0 and an average cell volume of 11.74 fL. Data represent the mean $\pm$ the standard deviation from three independent experiments.