

# Receptor-mediated Uptake of Folic Acid-functionalized Dextran Nanoparticles for Applications in Photodynamic Therapy

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# Supporting Information

## NMR Spectroscopy

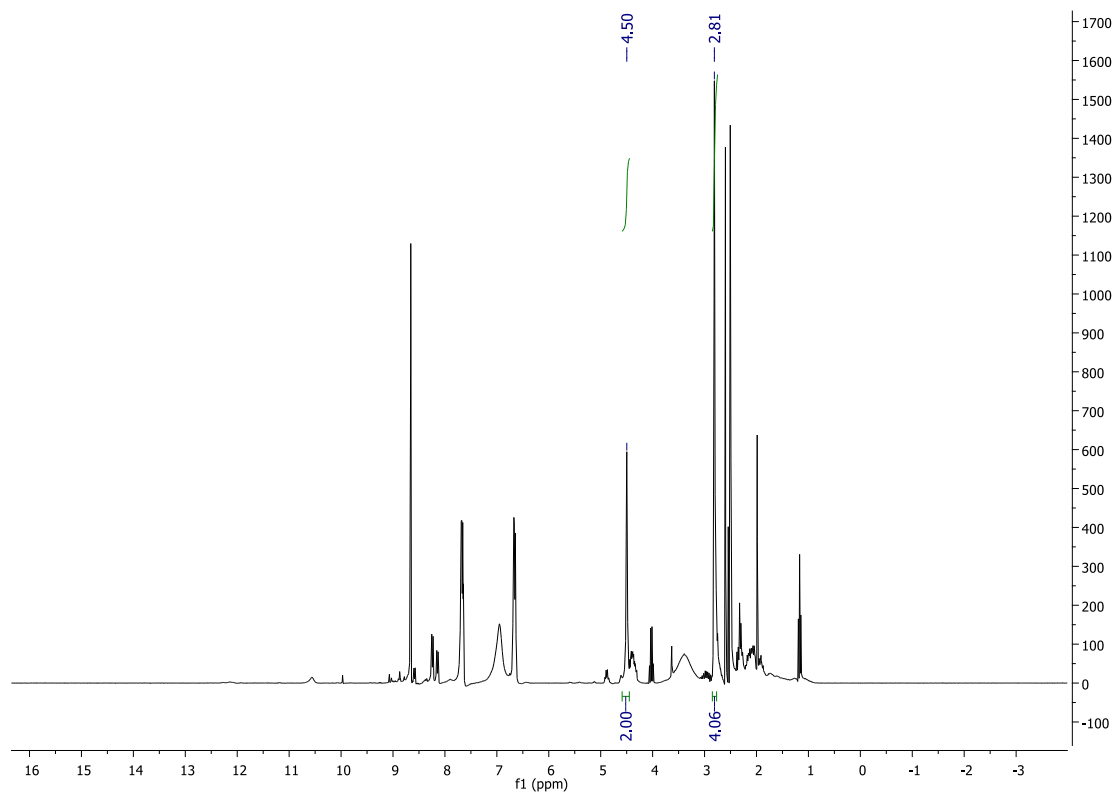


Figure S1: FA-NHS  $^1\text{H-NMR}$  (300 MHz,  $\text{DMSO-}d_6$ )

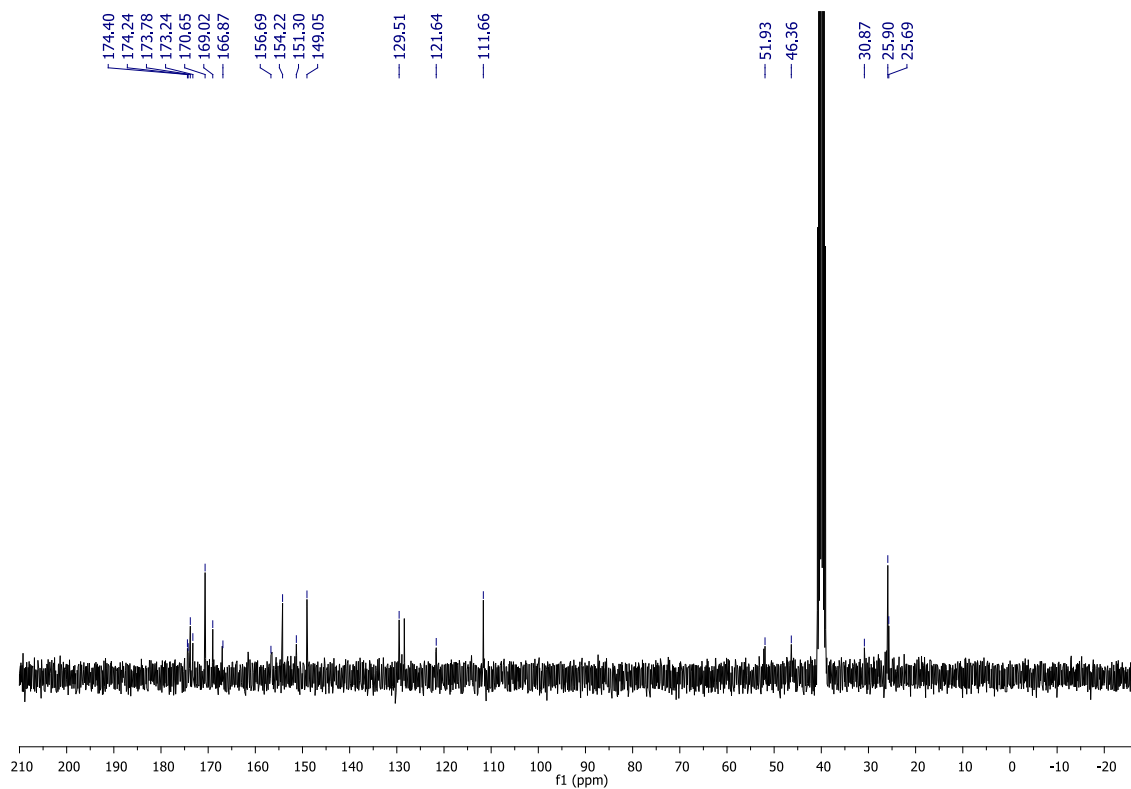
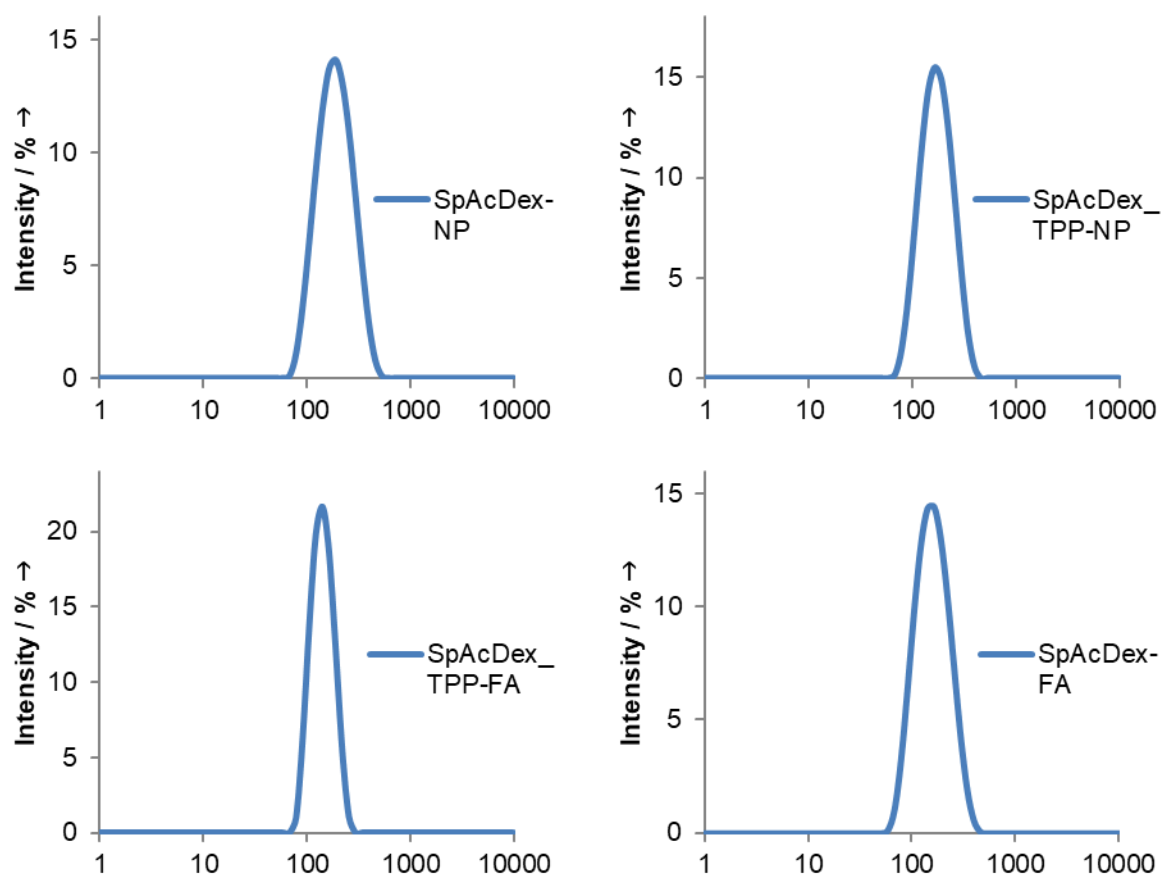


Figure S2: FA-NHS  $^{13}\text{C-NMR}$  (75 MHz,  $\text{DMSO-}d_6$ )

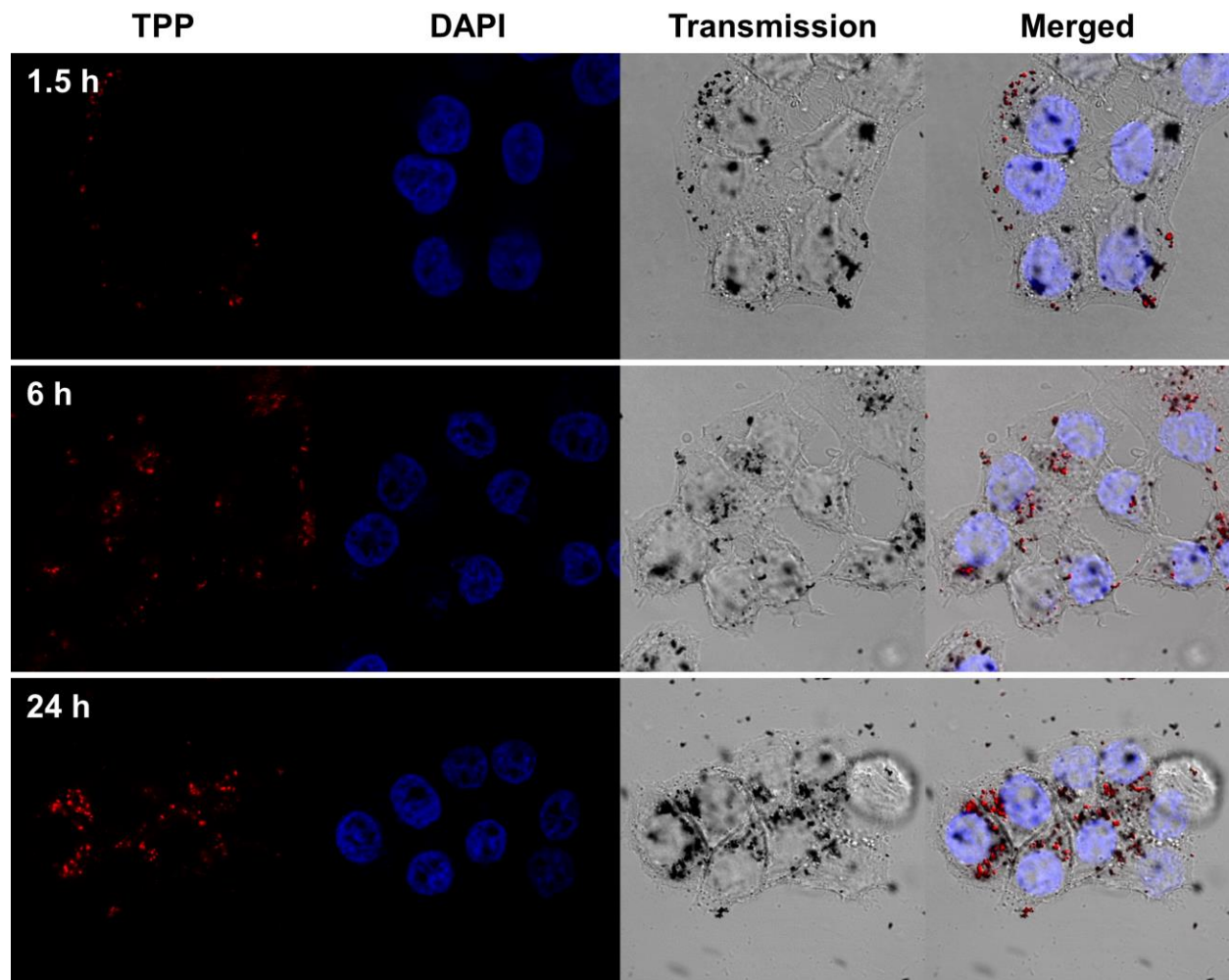
### *Determination of Nanoparticle Size*

Nanoparticle size was determined by dynamic light scattering (DLS) with a Malvern Zetasizer Nano ZS instrument. Evaluation of the data was performed with the Zetasizer software 6.20 and Mark-Houwink parameters. Empty and TPP-loaded Sp-Ac-DEX particles were suspended in PBS (filtered 0.22  $\mu\text{m}$ ) at concentrations of approx.  $0.25 \mu\text{g}\cdot\text{mL}^{-1}$  and suspensions were sonicated as well as vortexed thoroughly for 20 seconds before each measurement. Each measurement consisted of 12 runs and was repeated three times.

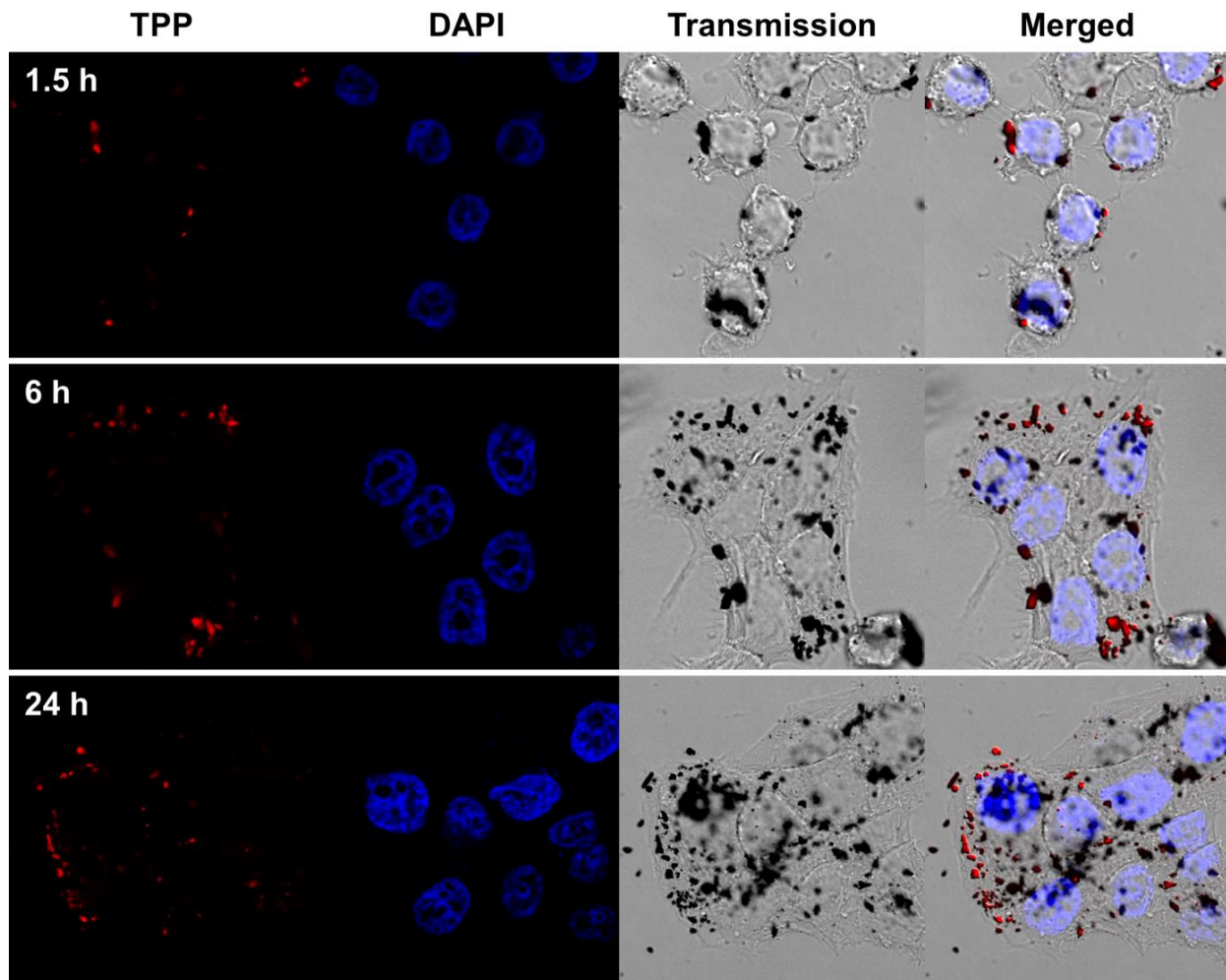


**Figure S3:** Nanoparticle size (diameter) of different SpAcDex particle types. Intensity describes the particle size distribution within the sample, depending on their scattering intensities.

*Fluorescence Microscopy*

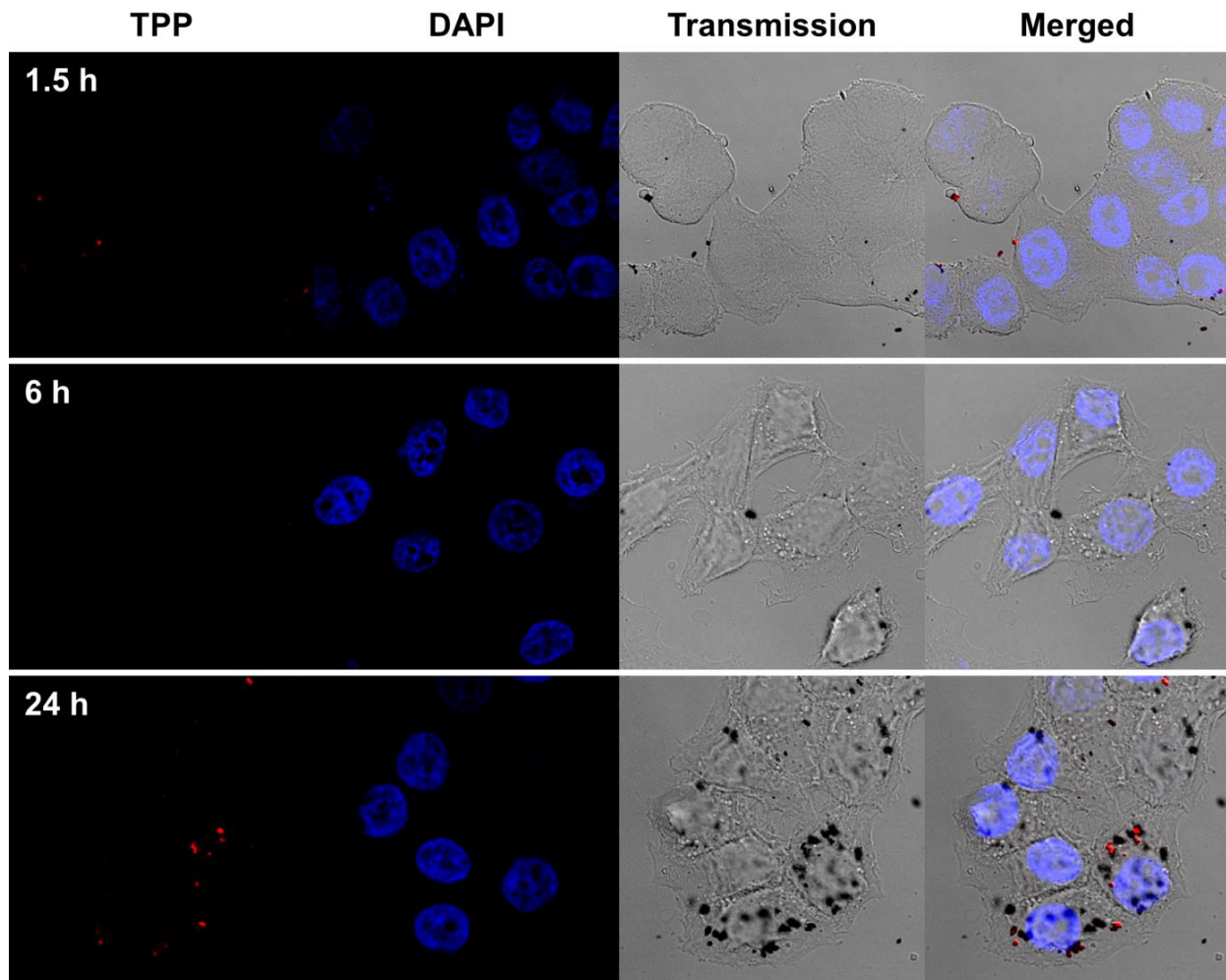


**Figure S4:** “Naked” SpAcDex(TPP) without FA competition



**Figure S5:** SpAcDex(TPP)-FA without FA competition

Supporting Information



**Figure S6:** SpAcDex(TPP)-FA with FA competition