

Electronic Supplementary Information

**A New Phenol Red-Modified Porphyrin as
Efficient Protein Photocleaving Agent**

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1. ^1H NMR spectra

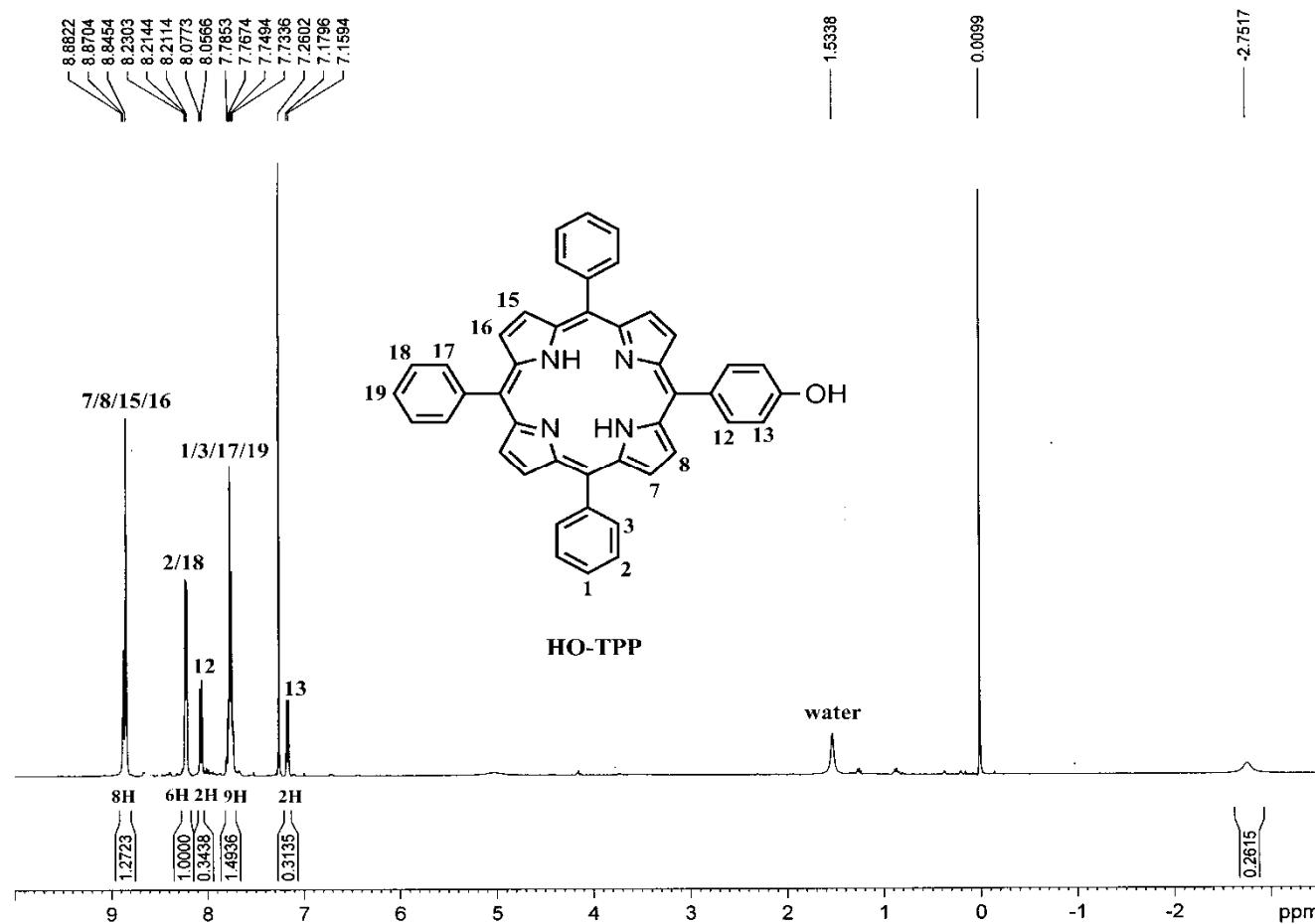


Figure S1. ^1H NMR spectrum of 5-(4'-Hydroxyphenyl)-10,15,20-triphenylporphyrin (**HO-TPP**) conducted with a 400MHz NMR spectrometer.

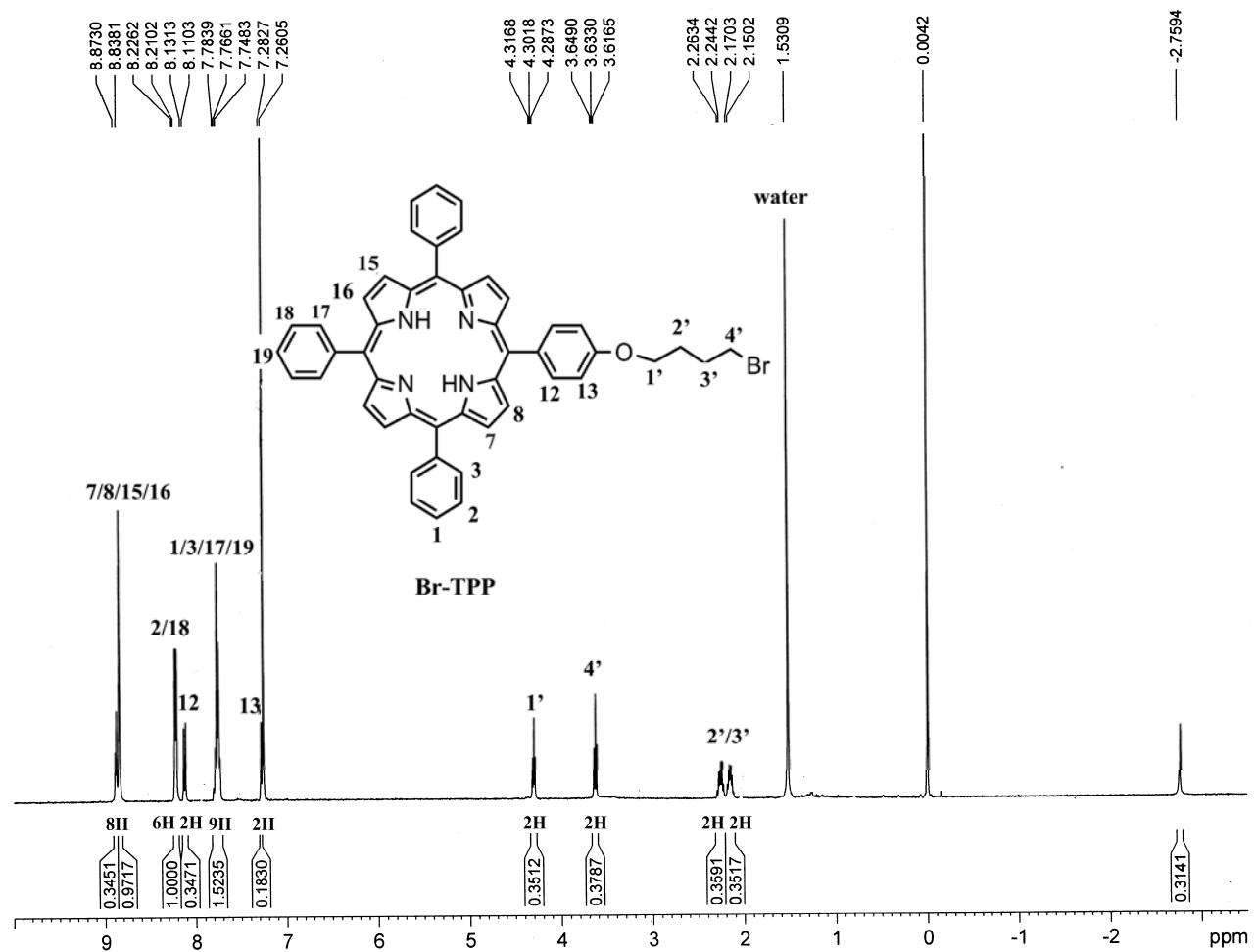


Figure S2. ^1H NMR spectrum of 5-(4'-Bromobutoxyphenyl)-10,15,20-triphenylporphyrin (**Br-TPP**) conducted with a 400MHz NMR spectrometer.

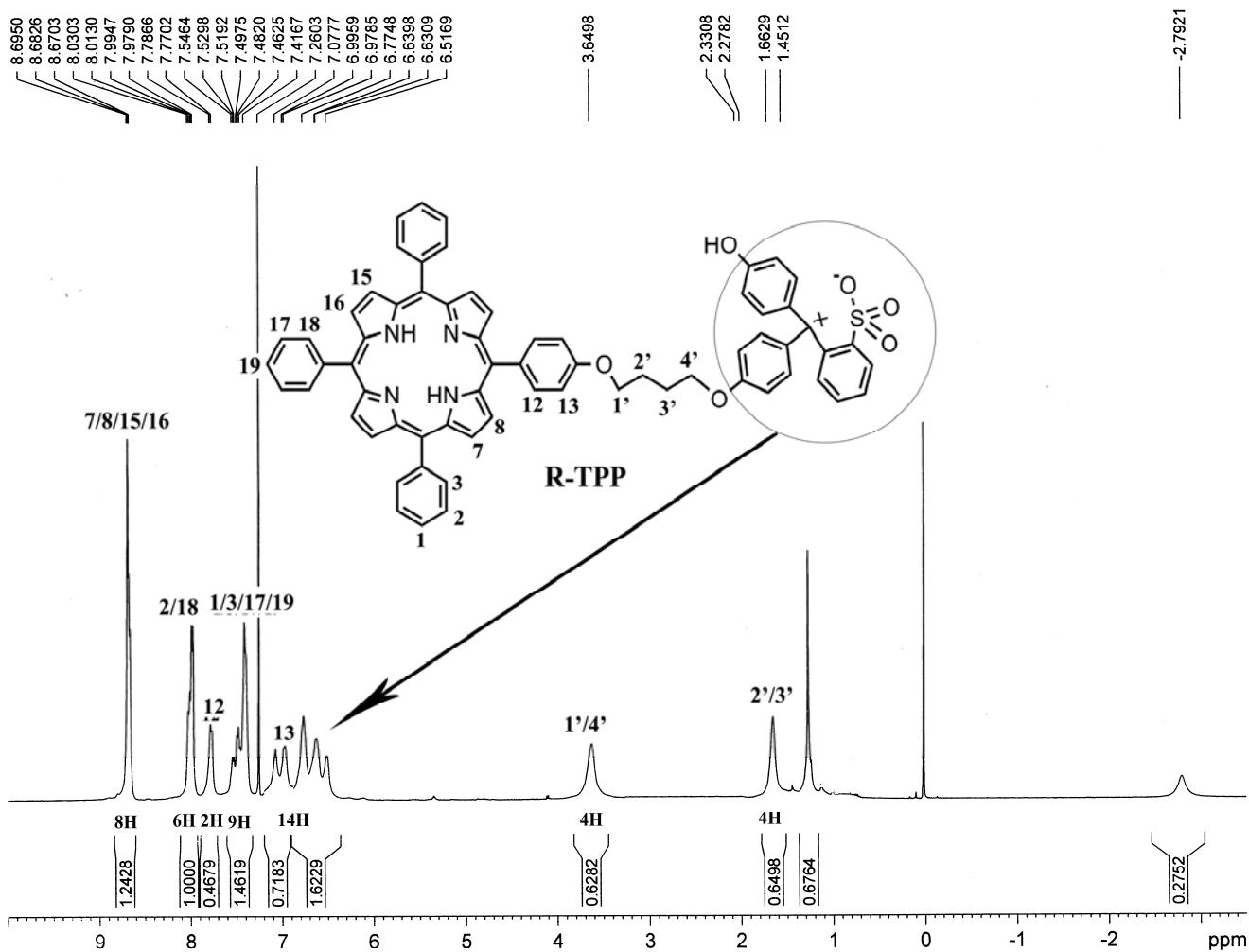


Figure S3. ^1H NMR spectrum of the synthesized phenol red modified porphyrin (**R-TPP**) conducted with a 400MHz NMR spectrometer.

2. ^{13}C NMR spectra.

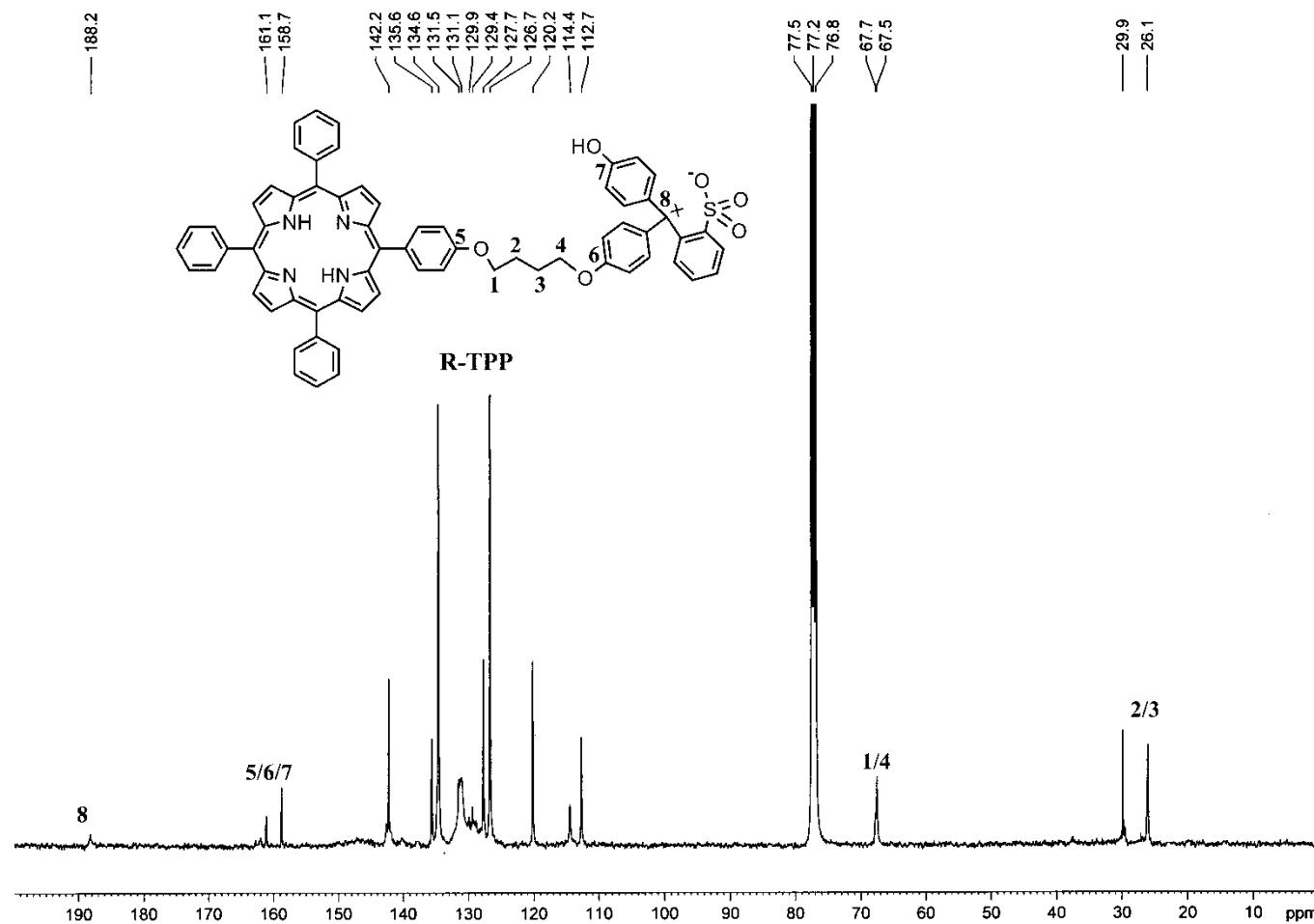


Figure S4. ^{13}C NMR spectrum of the synthesized phenol red modified porphyrin (**R-TPP**) conducted with a 400MHz NMR spectrometer.

3. HRMR spectra.

Bruker APEX IV FT_MS (7.0 T) Report (all)

Analysis Info 北京大学医药卫生分析中心 **Acquisition Da** 01/03/2010 10:57:23
Analysis Nam C:\data_sample\ESI_2010301_10\ESI_R_2010301\BLANK_1
Method Operator bpxsh@bjmu.edu.cn; Tel: 010_ 82801437
Sample Name Instrument FT_MS_Bruker APEX IV (7.0 T)
Comment ESI C67H50N4O6S1 MW 1038.3451
CAL588; 226.16718;249.15695;340.25887;301.14158;
362.24081;391.28483;413.26647;453.34353;
475.32548;509.25407;509.25407;566.42760;
588.40954;679.51166;701.49361;826.47121;
in 1:1 Tol:MeOH; CapExit 150V; m/z 150-1500; 1024K; D1 2s
0.05 mg/mL; 150uL/h

Acquisition Result:	Exact Mass	Measured Mass	Error (mm/e)	Error (ppm)	Description
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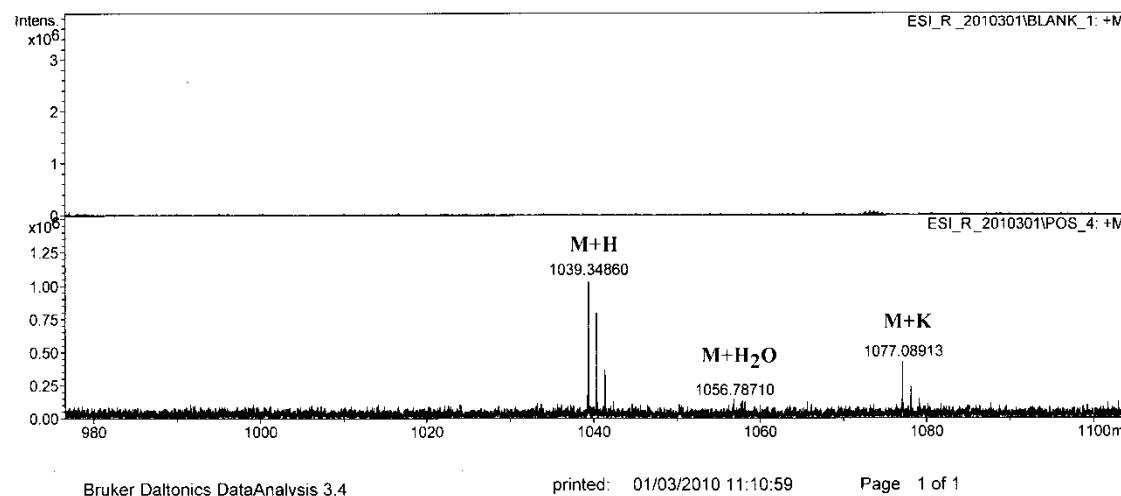


Figure S5. HRMS spectrum of the synthesized phenol red modified porphyrin (R-TPP).