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Supporting Information

Amphiphilic BODIPY Derivatives: the Solvophobic Effect on Their Photophysical Properties and Bioimaging in Living Cells

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Outline:

1. Photographs of BODIPY derivatives in organic solvents

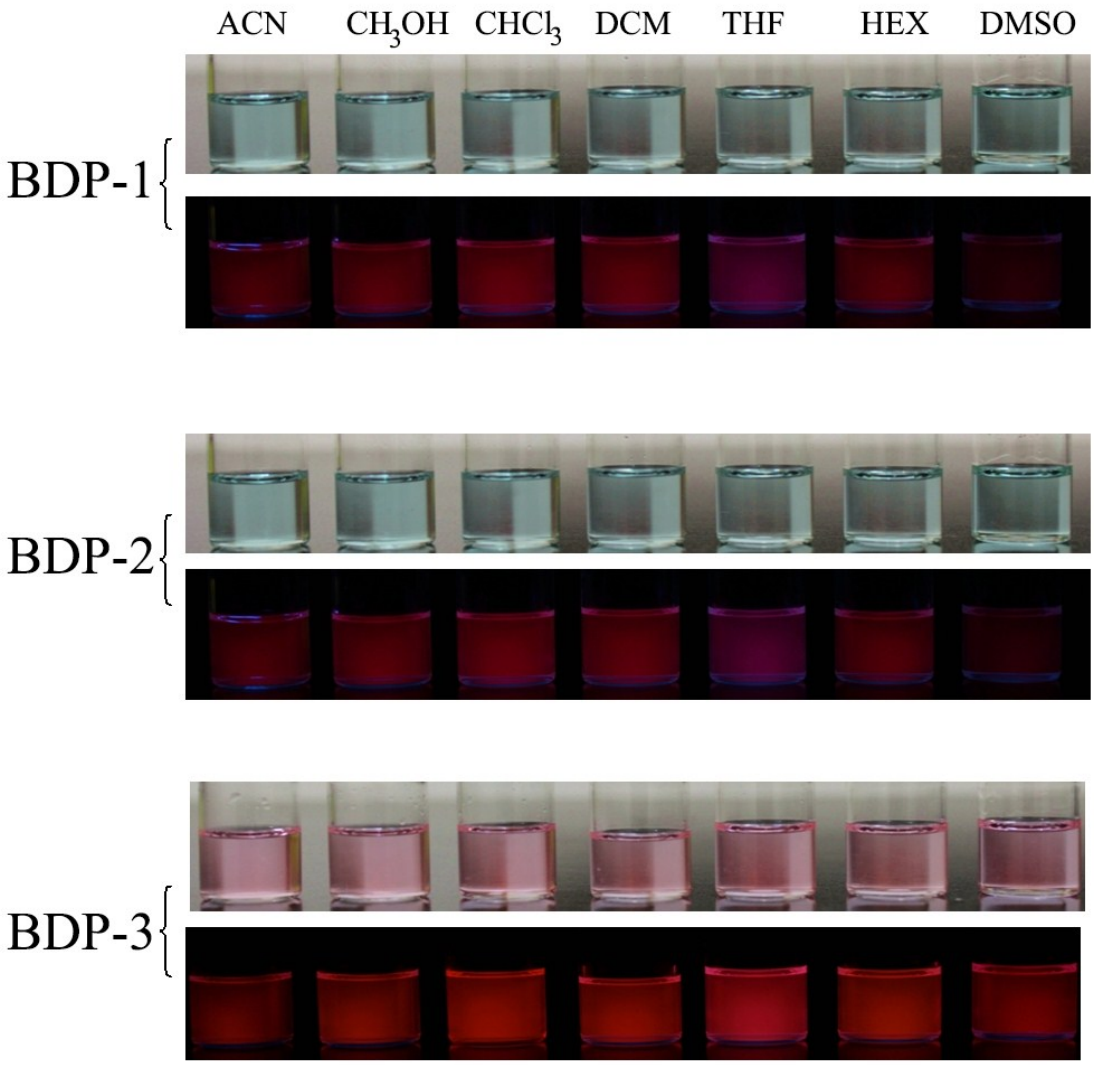

Fig. S1. Photographs of BODIPY derivatives (c = 2 μM) in various solvents under illumination with visible light (upper) and UV 365 nm (down).

2. Summary of photophysical data of BODIPY derivatives

Table S1. Spectra data for BODIPY derivatives studied in present work[a]

comp.	solvent	λ_{abs} (nm)	λ_{em} (nm)	φ_{fl}
BDP-1	DMSO	650	668	0.007
	CH_3OH	640	657	0.009
	ACN	640	657	0.011
	$CHCl_3$	648	664	0.009
	THF	642	657	0.009
	DCM	646	663	0.009
	Hexane	640	652	0.010
BDP-2	DMSO	654	672	0.006
	CH_3OH	644	660	0.008
	ACN	644	662	0.009
	$CHCl_3$	646	663	0.010
	THF	650	665	0.008
	DCM	646	664	0.009
	Hexane	648	662	0.009
BDP-3	DMSO	578	596	0.048
	CH_3OH	570	589	0.101
	ACN	570	587	0.100
	$CHCl_3$	574	590	0.075
	THF	574	589	0.080
	DCM	574	587	0.090
	Hexane	574	588	0.083

[a]Quantum yields (φ_{fl}) were determined by using fluorescein as a reference (φ_{fl} = 0.79) in 0.1 M NaOH

3. Photographs of BODPY derivatives in THF and water solution

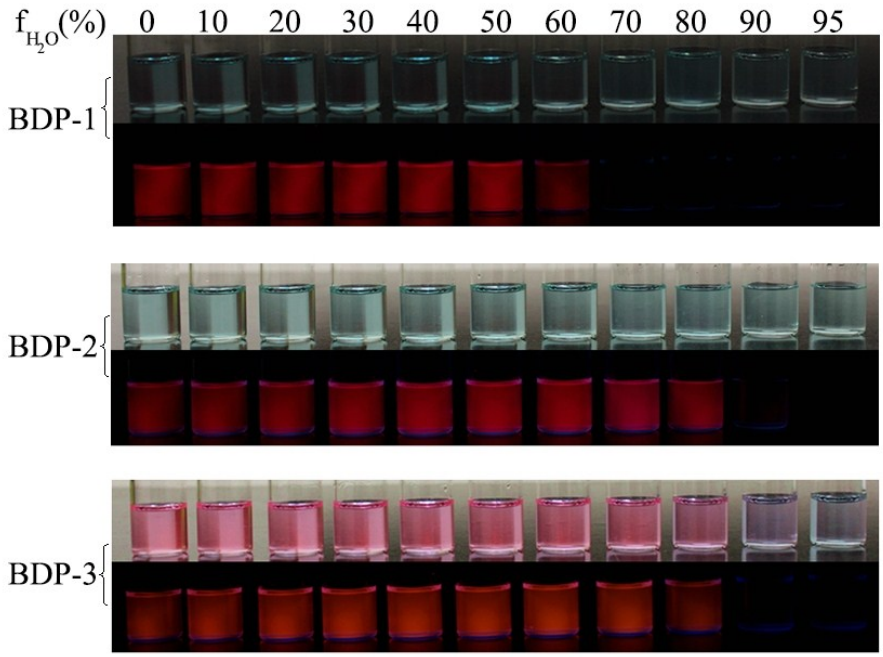

Fig. S2. Photographs of BODIPY derivatives **BDP-1**, **BDP-2** and **BDP-3** (c = 2 μM) in THF/water mixture solvents under illumination with visible light (upper) and UV 365 nm (down).

4. Cell toxicity tests

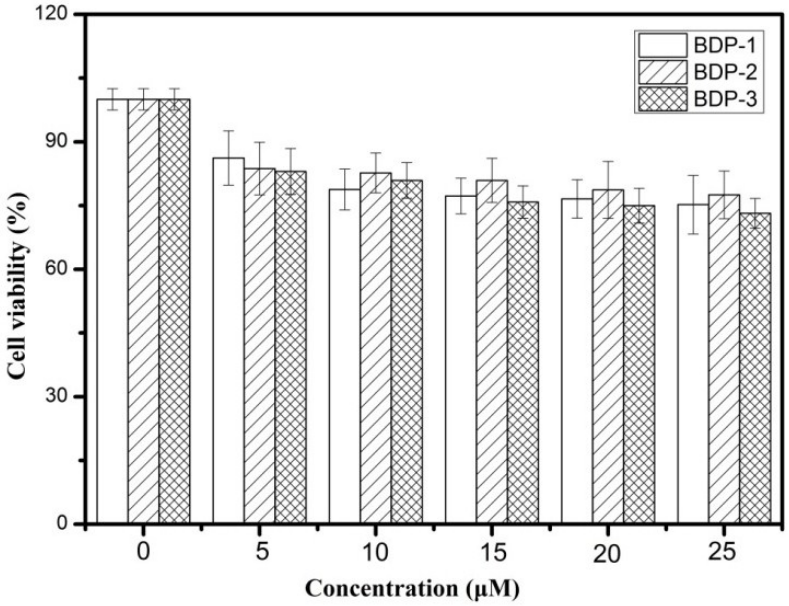

Fig. S3. Cell viability values (%) estimated by an MTT proliferation test versus incubation concentrations of BDP derivatives. HeLa cells were cultured in the presence of BDP derivatives (0-25 μM) at 37 ^{o}C for 24 h.

5. CLSF images of BDP-3

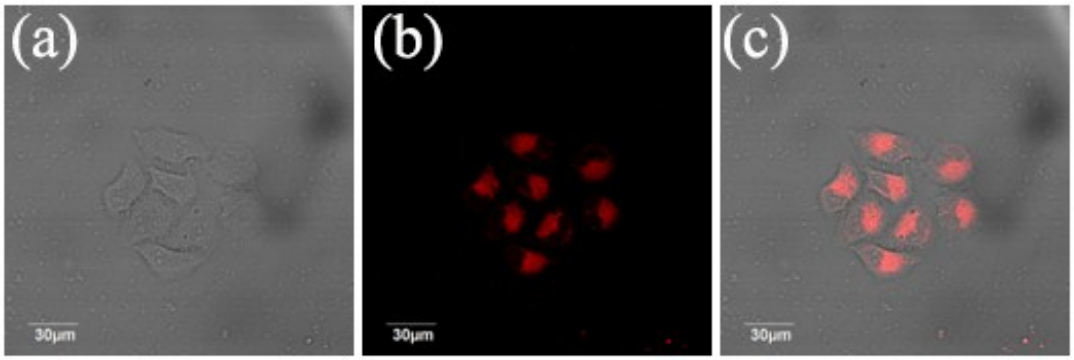

Fig. S4. CLSF images of **BDP-3** after 2 h incubation

6. NMR and HRMS spectra of BODIPY derivatives

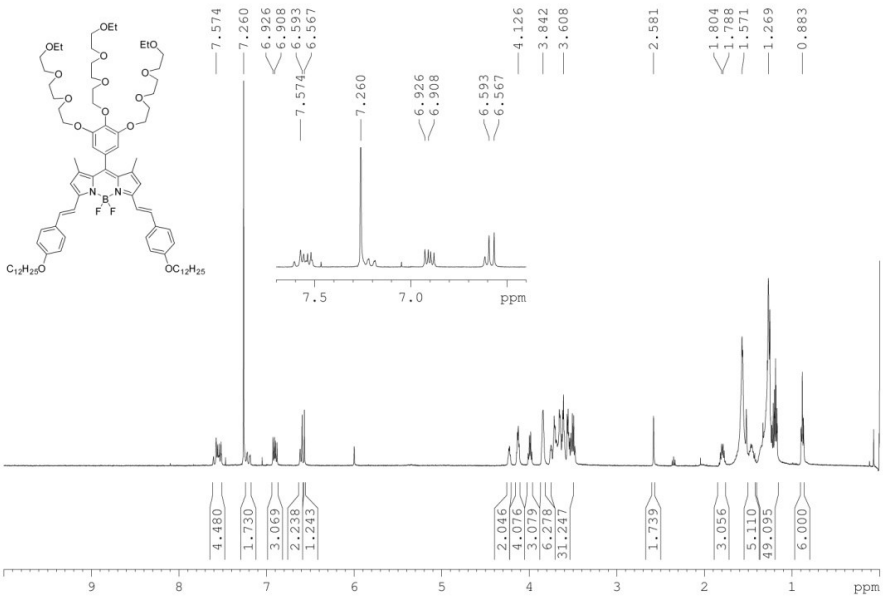

Fig. S5. ^{1}H NMR spectrum of **BDP-1** in $CDCl_3$

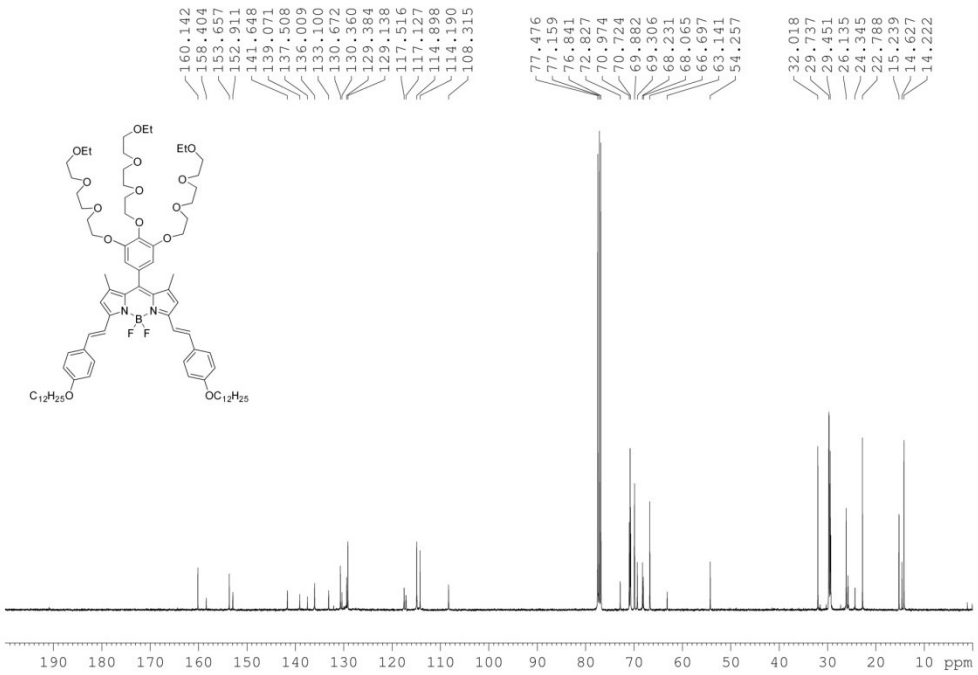

Fig. S6. ^{13}C NMR spectrum of **BDP-1** in $CDCl_3$

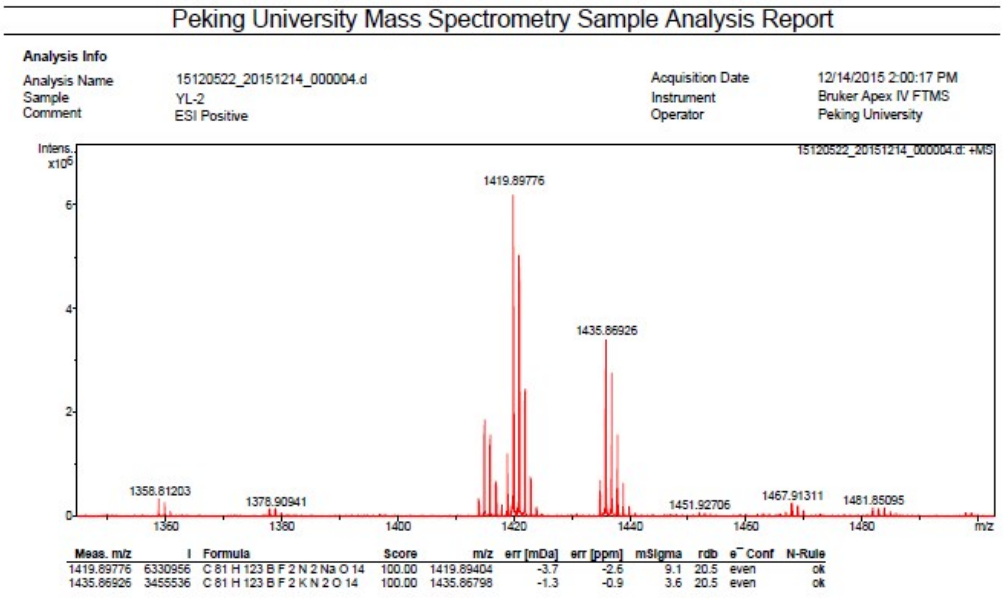

Fig. S7. HR ESI MS spectrum of **BDP-1**

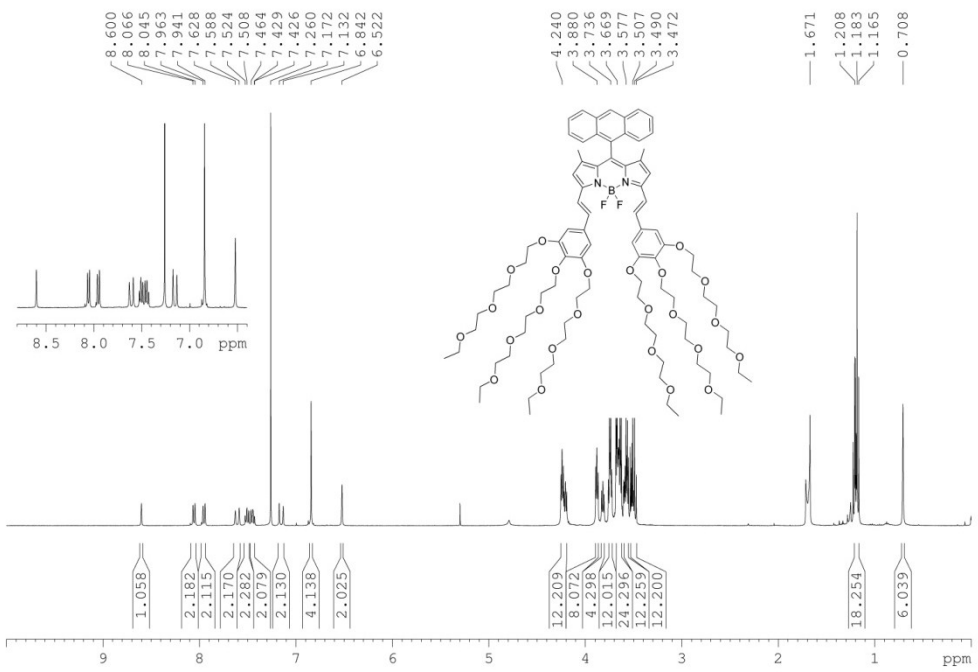

Fig. S8. ^{1}H NMR spectrum of **BDP-2** in $CDCl_3$

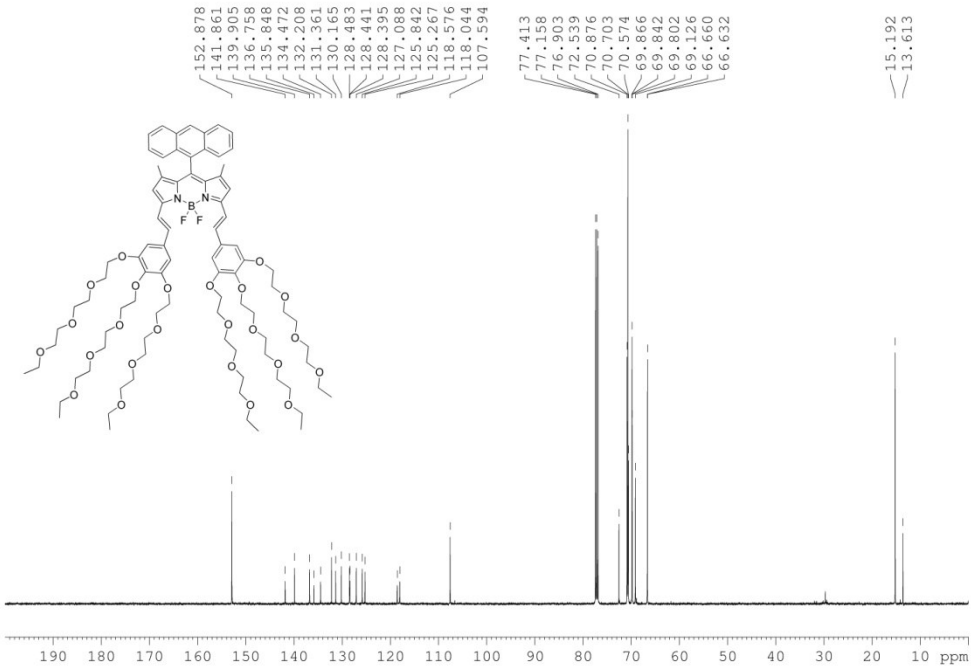

Fig. S9. ^{13}C NMR spectrum of **BDP-2** in $CDCl_3$

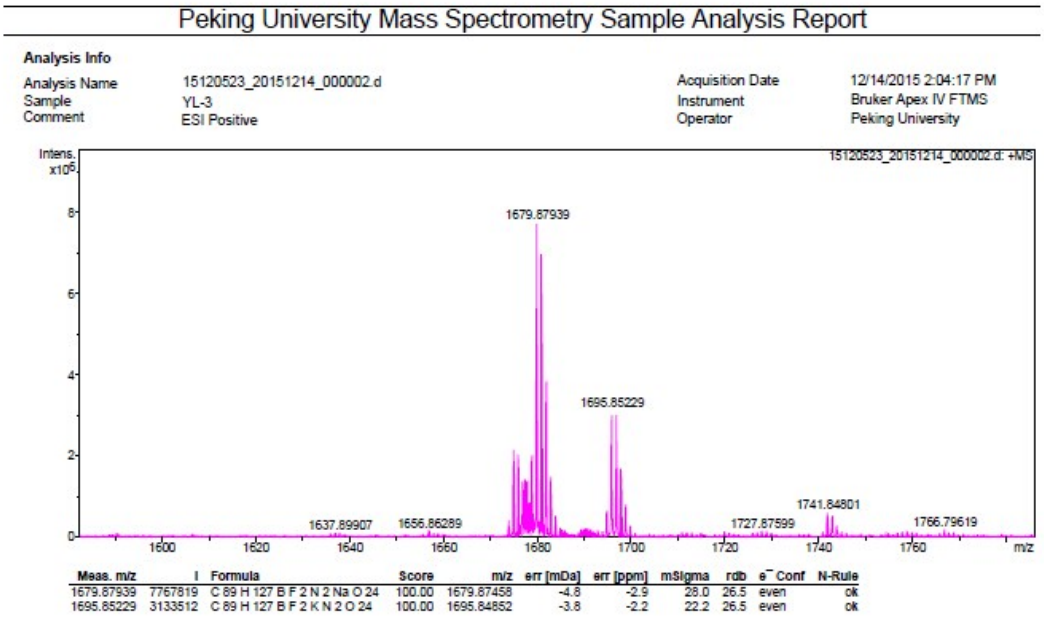

Fig. S10. HR ESI MS spectrum of **BDP-2**

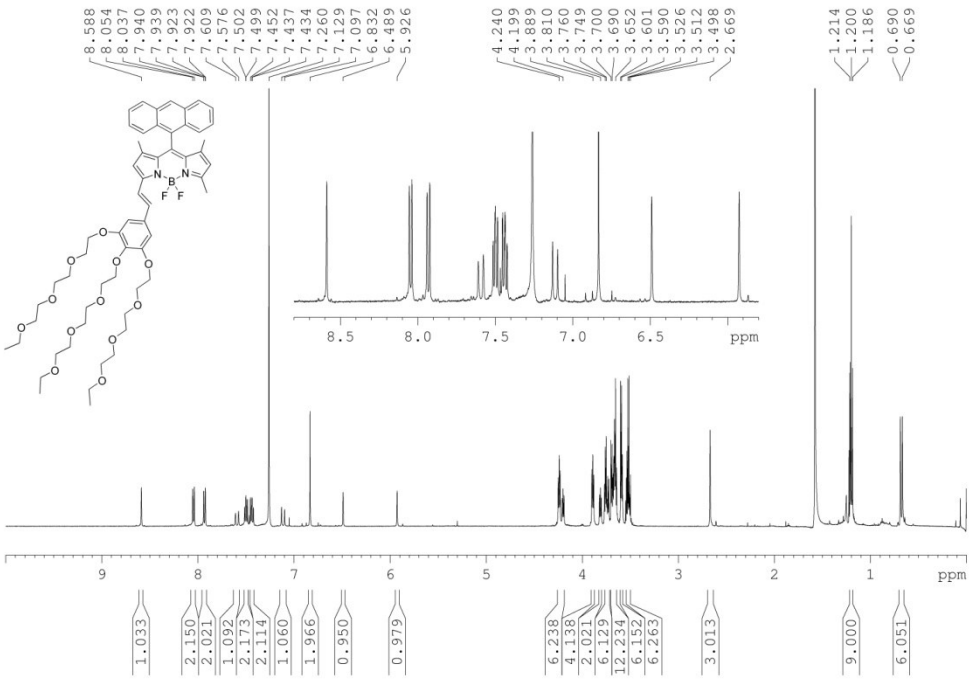

Fig. S11. ^{1}H NMR spectrum of **BDP-3** in $CDCl_3$

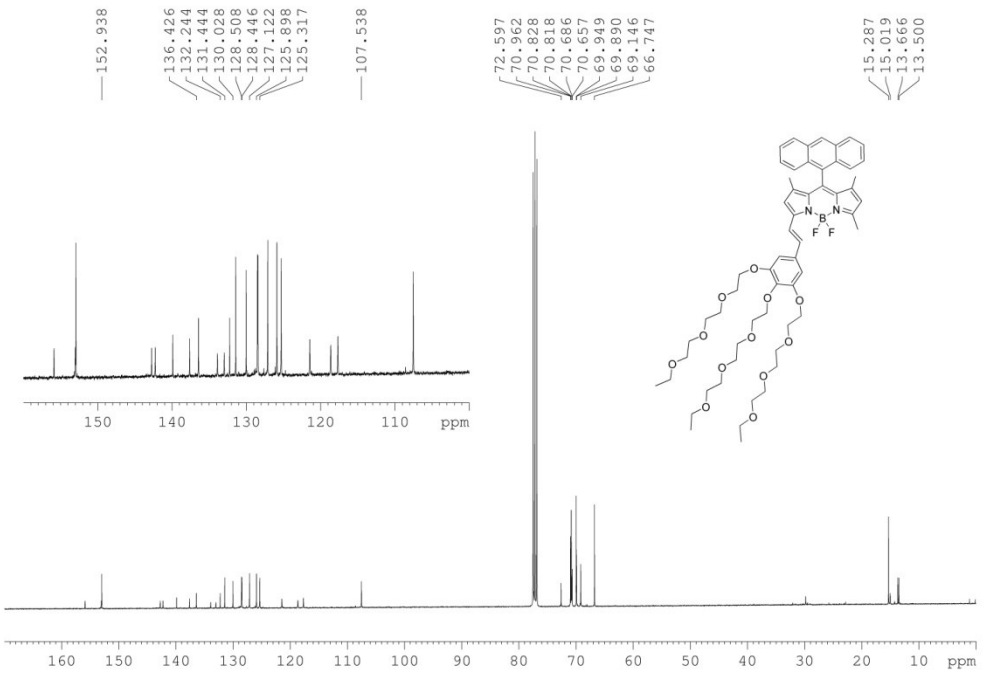

Fig. S12. ^{13}C NMR spectrum of **BDP-3** in $CDCl_3$

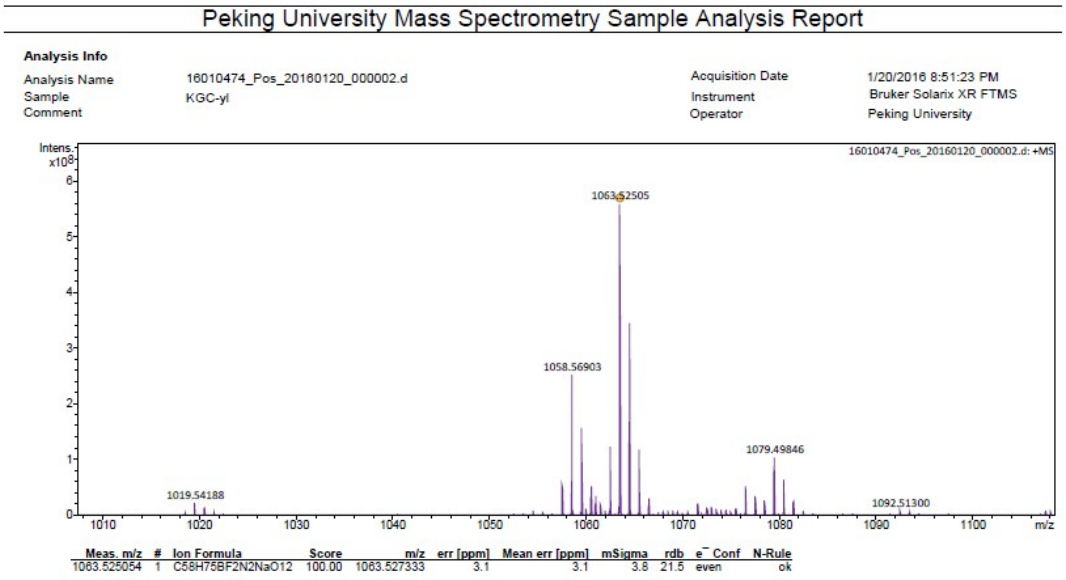

Fig. S13. HR ESI MS spectrum of **BDP-3**