

NIR triphenylamine grafted BODIPY derivative with high photothermal conversion efficiency and singlet oxygen generation for imaging guided phototherapy

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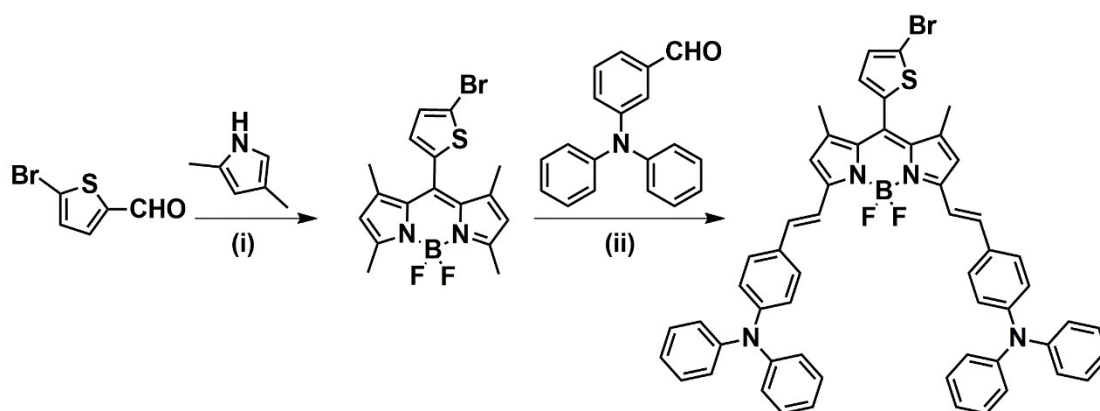


Fig S1 Synthetic route of BDPTPA

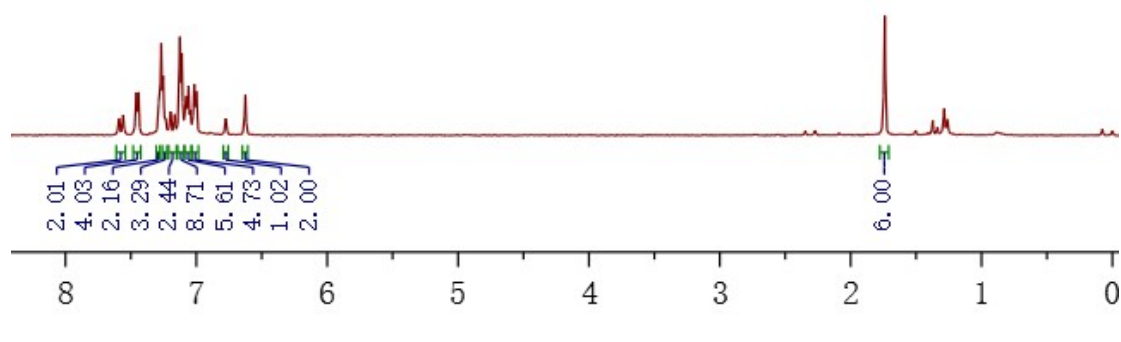


Fig S2 ¹H NMR spectrum of BDPTA in CDCl₃

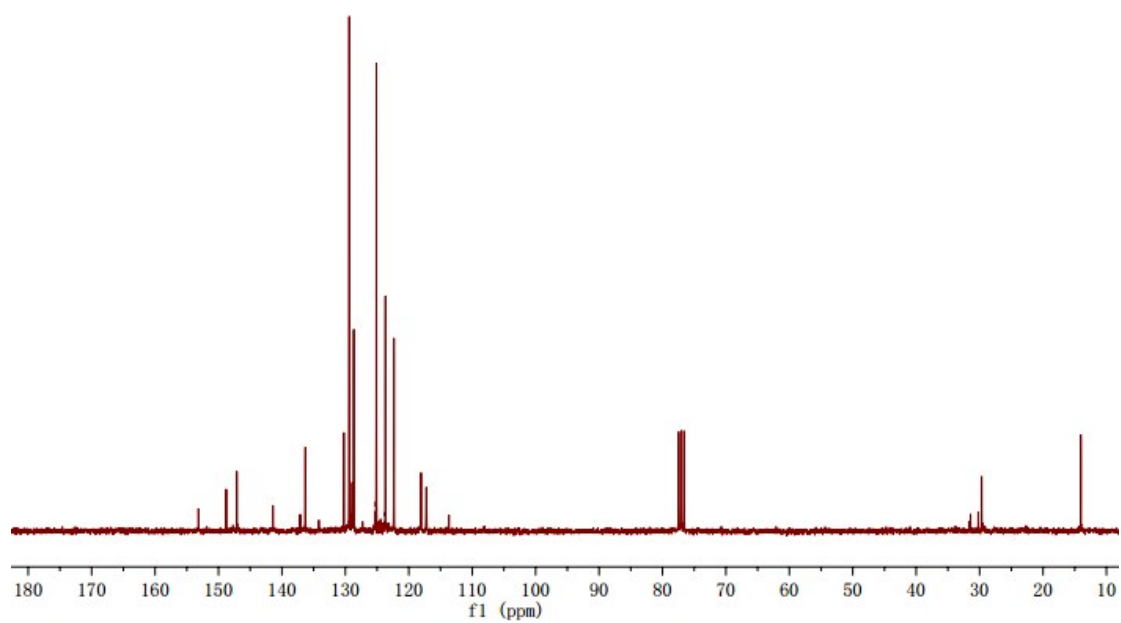


Fig S3 ¹³C NMR of BDPTA in CDCl₃

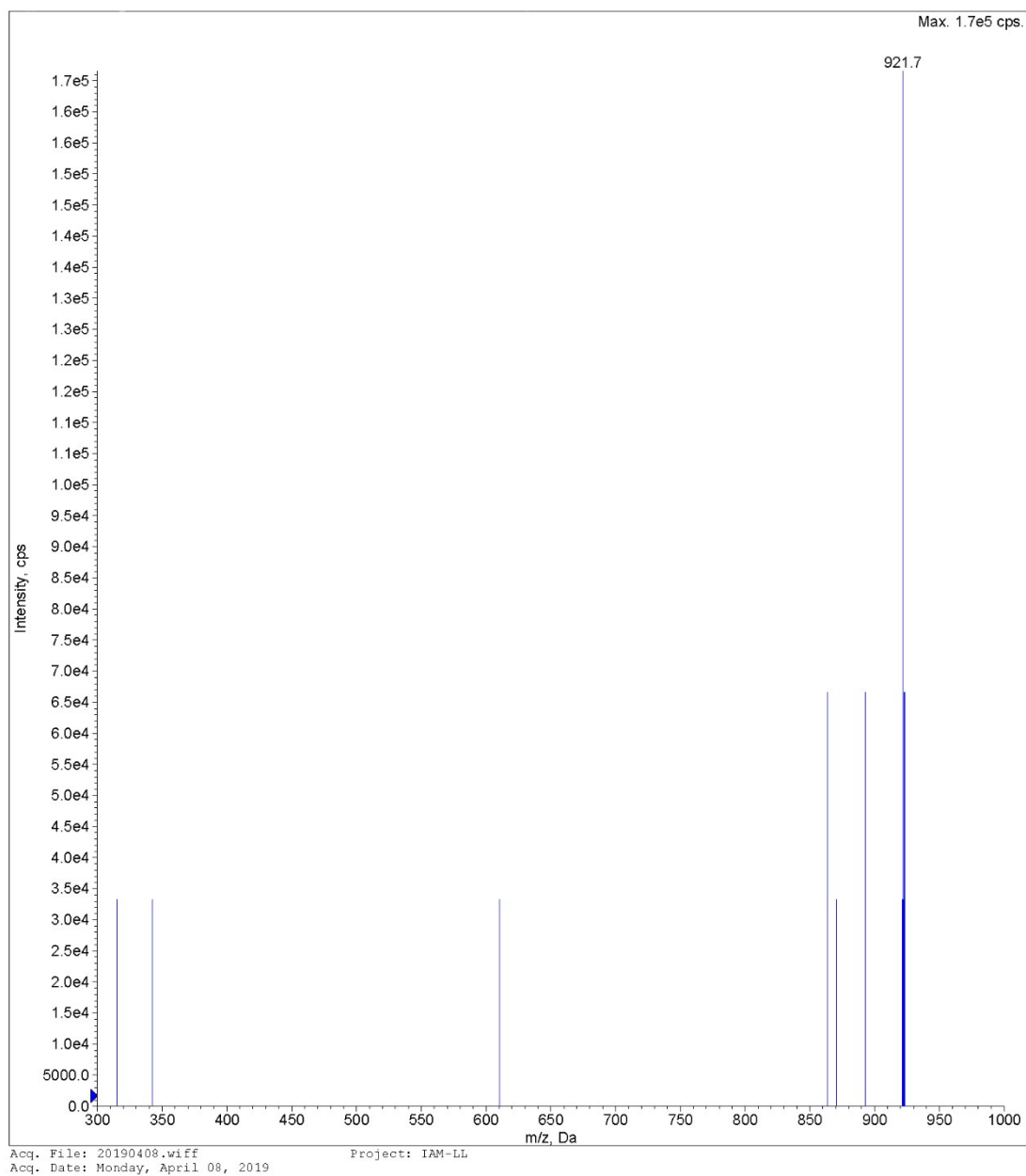


Figure S4 MS spectrum of BDPTA

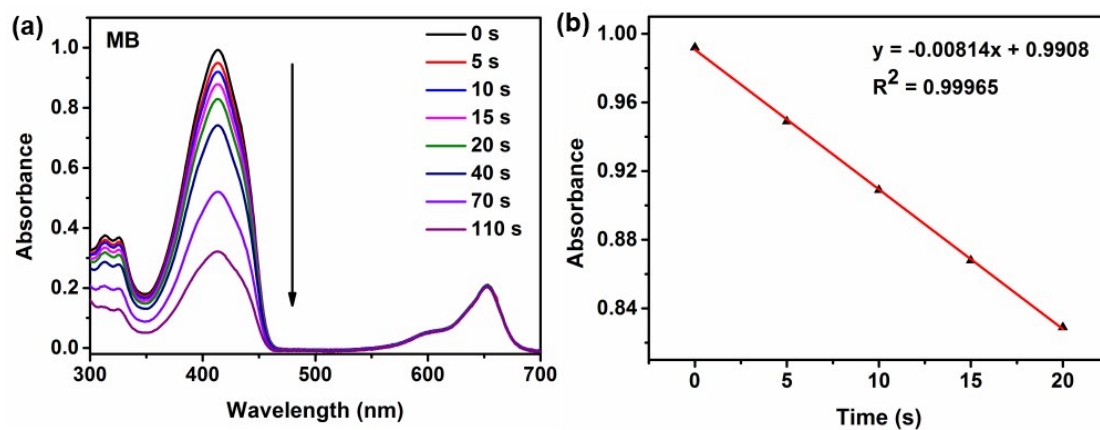


Fig S5 (a)DPBF degradation under the presence of MB with irradiation; (b)Linear fitting of absorbance

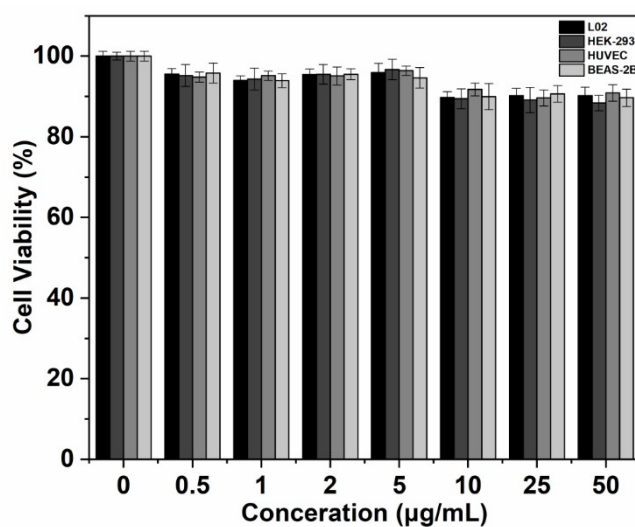


Fig S6 MTT assay of BDPTA NPs on normal cells without irradiation



Fig S7 Photograph of the mice of (a) Control (b) Without irradiation group (c)With irradiation groups after treatment

Table S. Effects of BDPTPA NPs on Hematology and biochemical Indices in SD rats
Each data point represents the mean $\pm$ SD of three rats P<0.05 versus basal levels of control group)

	Parameters	Control	BDPTPA NPs
Hematological parameters	White blood cells ($\times 10^3/\text{mL}$)	9.27 ± 0.76	10.28 ± 2.93
	Red blood cells ($\times 10^6/\text{blood cell}$)	5.65 ± 0.42	6.21 ± 0.24
	Hemoglobin (g/dL)	13.77 ± 0.76	15.10 ± 0.29
	Hematocrit (%)	36.43 ± 2.88	38.23 ± 0.76
	Mean corpuscular volume (fL)	64.43 ± 0.38	61.67 ± 3.38
	Mean corpuscular hemoglobin (pg)	24.40 ± 0.49	24.37 ± 1.31
	Lymphocytes (%)	76.30 ± 7.73	79.17 ± 8.82
	Monocytes (%)	4.73 ± 1.52	2.60 ± 1.44
	Eosinophils (%)	0.63 ± 0.12	1.23 ± 1.04
	Basophils (%)	0.73 ± 0.19	0.90 ± 0.14
Liver function	Platelet	1479.00 ± 182.21	1172.67 ± 132.06
	Aspartate aminotransferase (U/L)	75.67 ± 8.65	93.67 ± 9.88
	Alanine aminotransferase (U/L)	55.00 ± 10.71	64.33 ± 14.38
	Alkaline phosphatase (U/L)	460.00 ± 135.13	410.33 ± 209.05
	Total Protein (g/L)	74.83 ± 2.26	88.43 ± 5.56
Renal function	Blood urea nitrogen (mmol/L)	7.50 ± 0.22	7.27 ± 0.48
	Creatinine ($\mu\text{mol/L}$)	76.47 ± 8.84	63.03 ± 5.27