

Figure S1. The boron concentrations of B16 mouse melanoma cells and C6 rat glioma cells. ¹⁰B concentration of
F98 rat glioma cells 24 h after incubation in DMEM, including 1 mM of each boron compound.

	dose (mg ¹⁰ B/kg)	Time (h)	n ^b	¹⁰ B concentrations \pm SD (µg ¹⁰ B/g) ^c									Ratios ^d			
Agent ^ª / Route				Blood		Ipsilateral brain		Contralateral brain		Tumor		T/B1	T/Br			
	10	1	5	4.71	±	1.09	0.29	±	0.07	0.24	±	0.06	1.42	± 0.28	0.31	5.99
		3	3	1.26	±	0.22	0.10	±	0.04	0.09	±	0.01	0.85	± 0.30	0.69	9.52
KA-BSH	20	1	5	8.76	±	1.24	0.31	±	0.10	0.24	±	0.09	2.96	± 0.74	0.34	13.21
/ iv		3	4	1.54	±	0.65	0.14	±	0.07	0.09	±	0.05	1.47	± 0.17	1.12	21.07
	30	1	4	14.21	±	3.17	0.63	±	0.09	0.45	±	0.08	6.65	± 0.25	0.49	15.27
		3	4	2.35	±	1.37	0.35	±	0.39	0.14	±	0.06	2.91	± 0.34	1.58	23.09
BSH	20	1	4	19.17	±	3.28	0.44	±	0.08	0.32	±	0.05	5.49	± 0.25	0.29	17.61
/ iv	30	3	4	5.16	±	1.89	0.36	±	0.05	0.24	±	0.04	3.01	± 0.95	0.61	12.71
BPA	10	1	6	6.65	±	1.76	2.94	±	0.67	3.19	±	0.67	13.54	± 4.82	2.00	4.21
/ iv		3	4	4.41	±	1.21	3.29	±	0.44	2.95	±	0.72	11.05	± 2.58	2.53	3.83

3	Table S1. Boron concentrations in F98 glioma bearing rats
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4 a; KA-BSH, BSH or BPA was administered by intravenous injections, administered to Fischer rats bearing

5 intracranial implants of the F98 rat glioma. Animals were euthanized at 1 and 3 h following the injection and

6 tissues were removed for ¹⁰B determinations. b; n is the number of animals per group. c; ¹⁰B concentrations were

7 determined by ICP-AES. The mean ¹⁰B values (μg ¹⁰B/g weight of tissue) ± the standard deviation are shown for

8 groups of 3–6 rats. d; T/Bl indicates the tumor to blood ratio. T/Br indicates the tumor to normal brain

9 (contralateral brain) ratio.

Agent/Route		Survival Time						
Group	b n	Mean ± SD			Median	Range	Median	
KA-BSH/iv ^a	5	35.4	±	8.0	36.0	32 - 38	22.0	
Irradiated Controls	6	30.2	±	2.2	30.5	26 - 32	3.4	
Untreated Controls	4	28.5	±	3.1	29.5	24 – 31	-	

10 Table S2. Survival times of F98 glioma bearing rats following KA-BSH

11 a; A total of 10 mg 10B/kg of KA-BSH was administered by intravenous injection. BNCT was initiated 1 hour

12 after the intravenous administration of KA-BSH. B; n is the number of animals per group. c; Percent increase life

13 span (%ILS) was defined relative to the median survival times of untreated controls.