

**Supplemental Table 1.** Physiological parameters of all experimental groups.

Physiological parameters		Pre- infusion	Post- infusion
<i>PaO<sub>2</sub></i> (mmHg)	H <sub>2</sub> <sup>17</sup> O	102.1 ± 25.7	125.6 ± 9.6
	Gd-DTPA	94.3 ± 22.1	98.7 ± 24
	H <sub>2</sub> <sup>17</sup> O (TGN 020)	119.3 ± 16	127.9 ± 19.2
	H <sub>2</sub> <sup>17</sup> O (Vehicle)	157.8 ± 32	180.3 ± 40
	aCSF	142.5 ± 67.4	161.9 ± 37.2
<i>PaCO<sub>2</sub></i> (mmHg)	H <sub>2</sub> <sup>17</sup> O	37.5 ± 9	42 ± 9.2
	Gd-DTPA	40.7 ± 10.1	41.3 ± 8.9
	H <sub>2</sub> <sup>17</sup> O (TGN 020)	35.4 ± 5.2	37.2 ± 9.2
	H <sub>2</sub> <sup>17</sup> O (Vehicle)	33.4 ± 9.3	24.7 ± 8
	aCSF	49.1 ± 25.1	47.7 ± 23.5
Temp (°C)	H <sub>2</sub> <sup>17</sup> O	37 ± 0.6	37.2 ± 0.5
	Gd-DTPA	36.9 ± 0.7	36.7 ± 0.8
	H <sub>2</sub> <sup>17</sup> O (TGN 020)	36.8 ± 0.5	36.9 ± 0.5
	H <sub>2</sub> <sup>17</sup> O (Vehicle)	36.8 ± 0.7	37 ± 0.2
	aCSF	37.2 ± 0.6	37.1 ± 0.5
pH	H <sub>2</sub> <sup>17</sup> O	7.5 ± 0.06	7.5 ± 0.08
	Gd-DTPA	7.5 ± 0.07	7.4 ± 0.09
	H <sub>2</sub> <sup>17</sup> O (TGN 020)	7.5 ± 0.04	7.5 ± 0.08
	H <sub>2</sub> <sup>17</sup> O (Vehicle)	7.5 ± 0.05	7.5 ± 0.04
	aCSF	7.5 ± 0.09	7.5 ± 0.1

**Abbreviations:** PaCO<sub>2</sub>, partial pressure of carbon dioxide; PaO<sub>2</sub>, partial pressure of oxygen; Temp, temperature. Significant differences denoted by P < 0.05. Data presented as mean ± SD.