

Supplementary material

In vivo evaluation of innovative Gadolinium Based Contrast Agents designed for Bioimaging Applications

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Table of contents:

- Figure S1
- Table S1

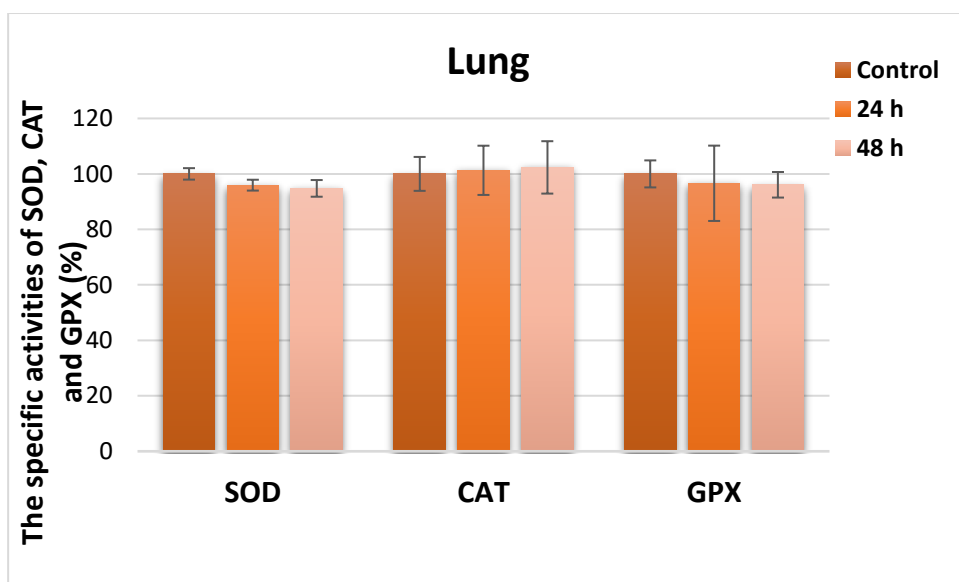


Figure S1. The specific activity of superoxide dismutase (SOD), catalase (CAT) and glutathione peroxidase (GPx) in the lung after 24 and 48 hours after the subcutaneous injection of GdDOTA- α -CS-TPP/HA nanohydrogels. Data are calculated as mean value \pm SD (n=6) and expressed relative to the corresponding control.

Table 1. The relative values of malondialdehyde, reduced glutathione, advanced oxidation protein products (AOPP) and protein reactive carbonyl groups (PCG) in the liver, kidney and heart of CD- 1 albino mice after subcutaneous injection of GdDOTA \subset CS-TPP/HA nanohydrogels.

Oxidative stress markers	Organ	24 h		48 h	
		Control group	Exposed group	Control group	Exposed group
MDA (nmoles/mg)	Lung	100 \pm 12.3	100.56 \pm 2.3	100 \pm 6.3	111.51 \pm 7.25
GSH (nmoles/mg)	Lung	100 \pm 8.9	106.4 \pm 4.5	100 \pm 7.1	107.93 \pm 6.67
AOPP (μ moles/mg)	Lung	100 \pm 7.8	109.49 \pm 10.39	100 \pm 14.2	111.10 \pm 6.25
PCG (nmoles/mg)	Lung	100 \pm 6.7	103.71 \pm 7.65	100 \pm 9.17	106.6 \pm 12.59