

Supplementary Information

[⁹⁹mTc-HYNIC-N-dodecylamide]: A New Hydrophobic Tracer for Labelling reconstituted High-Density Lipoproteins (rHDL) for Radioimaging

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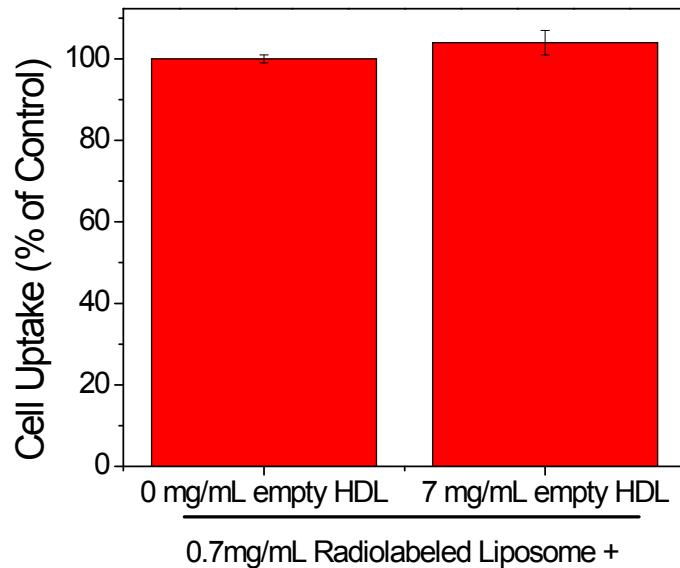
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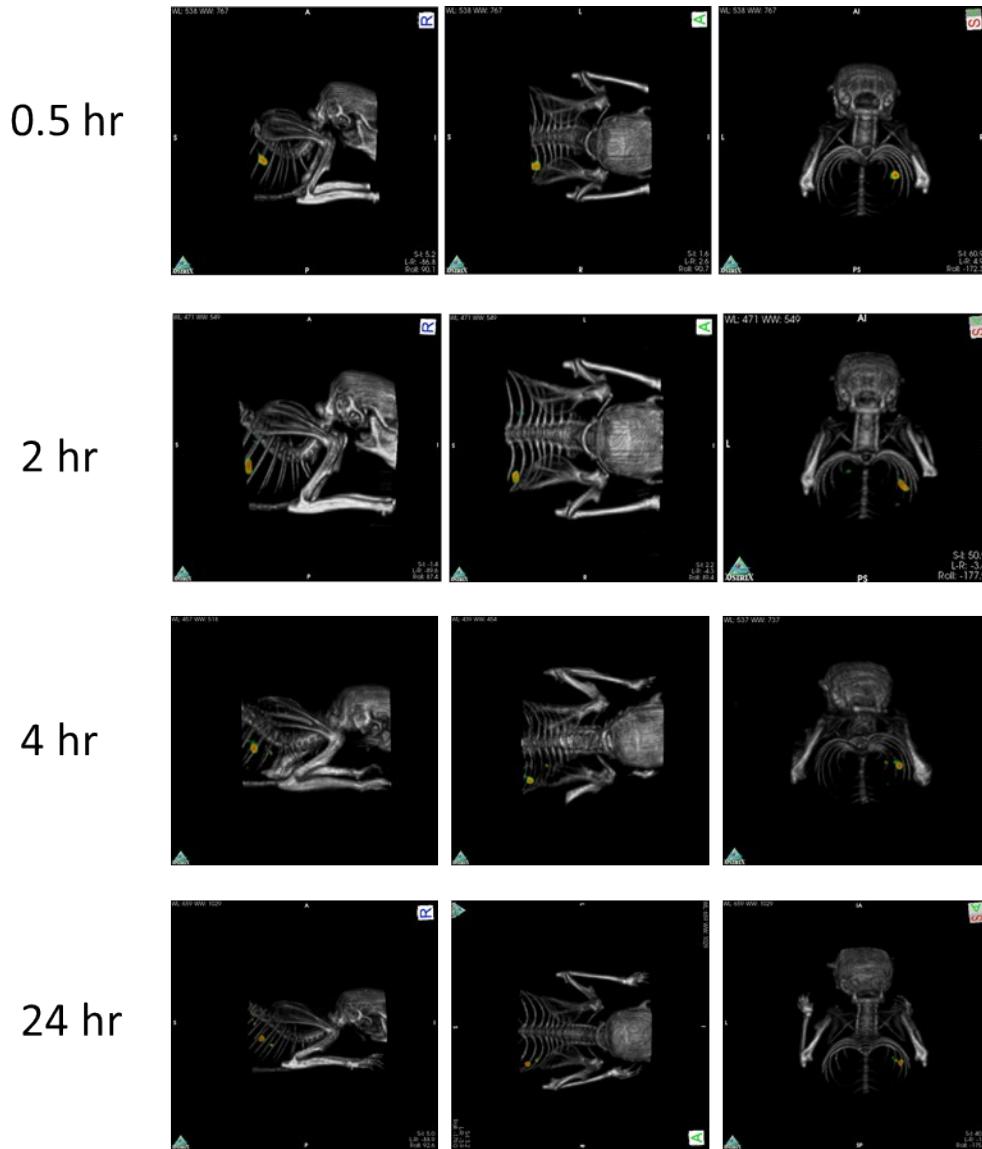
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Figure S1: Radioactivity in cell lysate when radiolabeled liposomes were incubated with and without SR-B1 receptor blocking using empty HDL. No difference in the uptake was observed as liposome deliver the payload without SR-B1 receptor.



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Figure S2: SPECT/CT images at different time-points post 99m Tc-rHDL injection intravenously in athymic mice bearing PC3 tumor induced by tail vein inoculation



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Table S1: Radiokinetic model for excretory organs and tumors

Organ	Radiokinetic model	Total disintegrations (MBq h / MBq)
Liver	$A(t) = -90.9e^{-(12.72)t} + 29.1e^{-(1.23)t} + 21.5e^{-(0.115)t}$	2.030
Spleen	$A(t) = -2.08e^{-(0.91)t} + 388e^{-(10.115)t} + 2.11e^{-(0.115)t}$	0.199
Kidney	$A(t) = -1.59e^{-(207.115)t} - 1.29e^{-(17.315)t} + 1.63e^{-(0.511)t}$	0.031
Tumor	$A(t) = -3.08e^{-(0.281)t} - 0.266e^{-(33.115)t} + 2.87e^{-(0.115)t}$	0.139
Tumor-^{99m}Tc-Liposome	$A(t) = -2.32e^{-(0.438)t} - 0.158e^{-(3.195)t} + 2.48e^{-(0.395)t}$	0.009