

Physiological Tissue Characterization

The vascular and interstitial volumes of LuCaP 77 tumor explants and normal tissues in SCID mice were measured in vivo by the indirect method for ^{99m}Tc red blood cell labeling (*Mol Pharmaceutics*. 2010;7:1848-1857) and jugular cannula infusion of the extracellular marker ^{111}In -pentetate, respectively, as previously described (*PLoS One*. 2011;6:e17874).

SUPPLEMENTAL TABLE 1: Physiological Tissue Characterization of LuCaP 77 Tumor Explants and Normal SCID Mouse Tissues

Tissue	Vascular volume ($\mu\text{L/g}$ tissue)		Interstitial volume ($\mu\text{L/g}$ tissue)	
	Measured (n=5)	Literature [*]	Measured (n=5)	Literature [*]
LuCaP 77 tumor	13 ± 7	n/a	277 ± 47	n/a
liver	50 ± 16	42 ± 8	92 ± 25	90 ± 15
kidney	100 ± 32	77 ± 7	1516 ± 231 [†]	2202 ± 462
large intestine	12 ± 5	n/a	150 ± 21	n/a
small intestine	8 ± 5	8 ± 2	157 ± 48	121 ± 62
heart	35 ± 24	30 ± 7	150 ± 20	158 ± 67
lungs	178 ± 109	235 ± 111	179 ± 32	173 ± 71
muscle	7 ± 4	9 ± 2	55 ± 18	114 ± 119

* Literature values for normal murine tissues are reprinted with permission from a literature reference (24) for comparison. Note that measured and literature values correspond to SCID and nude mice, respectively.

† The measured value for renal interstitial volume is not physiologically accurate, since the kidney is a clearance organ for ¹¹¹In-pentetate, the probe used to measure extracellular space.