**Supplemental Table 2.** Biodistribution of [68Ga]Ga-DO3A-S02-GCG over 180 minutes in rat. Individual values of each animal is shown (n=2 per time-point). \* indicates failed injection in the animal. Missing value indicate that the tissue was not included in the organ list at the time of the experiment, or there were technical issues with the sampling.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | [68Ga]Ga-DO3A-VS-S02-GCG | | | | | | | | | | | | | | | |
|  | **5 min** | | **10 min** | | **20 min** | | **40 min** | | **60 min** | | **90 min** | | **120 min** | | **180 min** | |
| **Blood** | 2.78 | \* | 2.75 | 1.22 | 1.72 | 0.74 | 0.66 | 0.48 | 0.31 | 0.4 |  | 0.02 |  | 0.18 | 0.05 | 0.04 |
| **Heart** | 1.03 | \* | 1.11 | 0.48 | 0.67 | 0.24 | 0.23 | 0.22 | 0.13 | 0.12 |  | 0.04 |  | 0.07 | 0.04 | 0.02 |
| **Lung** | 1.71 | \* | 2.26 | 1.06 | 1.2 | 0.44 | 0.39 | 0.41 | 0.24 | 0.24 | 0.16 | 0.16 |  | 0.13 | 0.09 | 0.13 |
| **Liver** | 1.47 | \* | 1.63 | 0.9 | 1.4 | 0.28 | 0.72 | 0.89 | 0.62 | 0.66 | 0.58 | 0.51 | 0.53 | 0.47 | 0.28 | 0.56 |
| **Pancreas** | 0.69 | \* | 0.72 | 0.3 | 0.42 | 0.16 | 0.18 | 0.15 | 0.15 | 0.11 | 0.05 | 0.03 | 0.04 | 0.06 | 0.05 | 0.02 |
| **Spleen** | 1.02 | \* | 1.89 | 1.1 | 1.09 | 0.33 | 0.86 | 1.03 | 0.35 | 1.08 | 0.5 | 1.06 | 0.36 | 0.67 | 0.4 | 1.33 |
| **Adrenals** |  | \* |  | 0.55 |  | 0.31 |  | 0.24 |  | 0.71 |  | 0.3 |  | 0.05 |  | 0.05 |
| **Kidney** |  | \* | 64.75 | 38.02 | 33.32 | 11.44 | 58.36 | 66.34 | 52.52 | 60.93 | 43.66 | 86.29 | 42.02 | 54.97 | 34.72 | 71.19 |
| **Stomach** |  | \* | 1.41 | 0.62 | 0.68 | 0.32 | 0.33 | 0.28 | 0.27 | 0.2 |  | 0.09 | 0.08 | 0.11 | 0.13 |  |
| **Sm Intest-** |  | \* | 1.39 | 0.5 | 0.37 | 0.27 | 1.55 | 0.28 | 0.37 | 0.23 | 0.06 | 0.12 | 0.1 | 0.08 | 0.13 | 0.06 |
| **Sm Intest+** |  | \* | 0.95 | 0.37 | 0.29 | 0.29 | 0.38 | 0.16 | 0.21 | 0.49 | 0.57 | 0.09 | 0.1 | 0.06 | 0.05 | 0.07 |
| **La Intest-** |  | \* | 1.33 | 1.05 | 0.47 | 0.46 | 0.38 | 0.29 | 0.41 | 0.2 | 0.07 | 0.08 | 0.02 | 0.09 | 0.13 | 0.04 |
| **Faeces** |  | \* | 0.11 | 0.02 | 0.11 |  | 0.18 | 0.02 | 0.07 | 0.02 | 0.01 | 0.01 | 0.04 | 0 | 0.1 | 0.01 |
| **Urine** |  | \* |  | 11.7 |  | 3.87 |  | 59.55 |  | 51.22 |  | 0.13 |  | 4.78 |  | 0.12 |
| **Testes** |  | \* | 0.51 | 0.28 | 0.21 | 0.14 | 0.18 | 0.19 | 0.17 | 0.19 | 0.05 | 0.08 | 0.02 | 0.09 | 0.03 | 0.05 |
| **Muscle** |  | \* | 0.59 | 0.23 | 0.17 | 0.07 | 0.17 | 0.07 | 0.08 | 0.06 | 0.03 | 0.02 | 0.01 | 0.02 | 0.03 | 0.01 |
| **Bone Marrow** |  | \* |  | 0.84 |  | 0.36 |  | 0.44 |  | 1.22 | 0.74 |  | 0.22 | 0.89 |  | 1.25 |
| **Bone** |  | \* | 0.86 | 0.25 | 1.14 | 0.08 | 0.38 | 0.27 | 0.28 | 0.19 | 0.11 | 0.12 | 0.08 | 0.13 | 0.1 | 0.16 |
| **Brain** |  | \* | 0.1 | 0 | 0.04 | 0.03 | 0.05 | 0.02 | 0.06 | 0.02 | 0.01 | 0.12 | 0 | 0.01 |  | 0.01 |