|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Normalized by Initial BW** | | | | | |
|  | **WT-PBS** | **WT-LLC** | **KO-PBS** | **KO-LLC** | **Significance (p0.05)** |
| **Final BW** | 1.09±0.01 | 1.12±0.02 | 1.08±0.01 | 1.06±0.02 | ME KO (p=0.01) |
| **Tumor-Free BW** | 1.09±0.02 | 1.03±0.02 | 1.08±0.008 | 1.01±0.02 | ME LLC (p=0.001) |
| **Soleus** | 0.41±0.02 | 0.39±0.01 | 0.44±0.01 | 0.4±0.01 | ME LLC (p=0.008) |
| **Plantaris** | 0.83±0.02 | 0.77±0.03 | 0.83±0.01 | 0.79±0.03 | ME LLC (p=0.01) |
| **Gastrocnemius** | 5.97±0.19 | 5.35±0.16 | 5.72±0.09 | 5.03±0.15 | ME LLC (p=0.0002) |
| **Extensor Digitorum Longus** | 0.47±0.02 | 0.44±0.03 | 0.46±0.01 | 0.46±0.01 | ns |
| **Tibialis Anterior** | 2.12±0.07 | 1.88±0.06 | 2.04±0.05 | 1.84±0.04 | ME LLC (p=0.0002) |
| **Heart** | 5.65±0.17 | 5.33±0.06 | 5.7±0.11 | 5.47±0.13 | ns |
| **Liver** | 55.7±1.48 | 57.93±2.17 | 53.46±2.29 | 58.28±2.1 | ns |
| **Spleen** | 3.54±0.07 | 10.14±1.34 | 4.16±0.27 | 8.09±1.11 | ME LLC (p<0.0001) |
| **Fat** | 16.71±1.29 | 12.06±1.62 | 13.12±1.36 | 12.79±0.99 | ns |
| **Tumor (mg/g)** | - | 84.18±21.82 | - | 52.94±17.6 | ns |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Raw Weights** | | | | | |
|  | **WT-PBS** | **WT-LLC** | **KO-PBS** | **KO-LLC** | **Significance (p0.05)** |
| **Initial Body Weight (BW[g])** | 23.68±0.74 | 25.98±0.45 | 25.59±0.66 | 24.56±0.89 | ns |
| **Final BW (g)** | 25.84±0.68 | 28.84±0.61 | 28.01±0.52 | 25.96±0.88 | Interaction (p=0.01) |
| **Tumor-Free BW (g)** | 25.84±0.68**ab** | 26.14±0.76**ab** | 28.01±0.52**a** | 25.18±0.9**b** | Interaction (p=0.01) |
| **Soleus (mg)** | 9.78±0.44**a** | 10.12±0.26**ab** | 11.21±0.36**b** | 9.76±0.41**ab** | Interaction (p=0.02) |
| **Plantaris (mg)** | 20.15±0.74 | 20.2±0.71 | 21.19±0.48 | 19.31±0.87 | ns |
| **Gastrocnemius (mg)** | 137.29±2.73 | 137.58±2.98 | 149.19±2.95 | 123.27±5.26 | ME LLC (p=0.001) |
| **Extensor Digitorum Longus (mg)** | 11±0.3 | 10.45±0.96 | 11.75±0.54 | 10.88±0.6 | ns |
| **Tibialis**  **Anterior (mg)** | 48.87±1.11 | 47.49±1.85 | 51.26±2.11 | 45.06±1.79 | ME LLC (p=0.03) |
| **Heart (mg)** | 139.97±3.88 | 134.28±4.37 | 152.2±3.6 | 135.07±4.86 | ME LLC (p=0.009) |
| **Liver (mg)** | 1271.57±52.49 | 1468.73±68.91 | 1361.97±55.46 | 1408.69±70.46 | ME LLC (p=0.05) |
| **Spleen (mg)** | 87.64±2.65**a** | 259.19±36.79**b** | 101.24±5.58**ac** | 180.05±23.23**c** | Interaction (p=0.02) |
| **Fat (mg)** | 396.04±33.21 | 277±34.45 | 323.61±20.84 | 300.28±17.71 | ns |
| **Tumor (mg)** | - | 2.1±0.55 | - | 1.3±0.43 | ns |

Supplementary Table 1. BNIP3 KO Male Phenotype.