Central actions of leptin induce an atrophic pattern and improves heart function in lean normoleptinemic rats via PPARβ/δ activation

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Supplementary Data

**Table S1**. Primer sequences of genes used for quantification of mRNAs by qRT-PCR

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| **GENE** | **NAME** | **REFERENCE** |
| Ob-Rb | Long Form of Leptin Receptor | Rn01433205\_m1 |
| Crh | Corticotropin Releasing Hormone | Rn01462137\_m1 |
| **NAME** | **SEQUENCE** | |
| Trh\_F | AGCTCAGCATCTTGGAAAGC | |
| Trh\_R | CCAGCAGCAACCAAGGTC | |



**Figure S1**: Representative Red Ponceau staining of the nitrocellulose membrane for total protein normalization prior to immunodetection. Molecular weight markers (arrows). Equal amounts of proteins from cardiac ventricles total extracts (50 µg) from vehicle, leptin, and leptin plus GSK0660 treated rats were separated under reducing conditions on a 10% SDS-PAGE gel and further stained with Red Ponceau tinction before incubation with PPARβ/δ antibody (1:1000, ab23676) and β-actin antibody (1:1000, ab8226).

**Table S2**. Quantitative densitometry analysis of PPARβ/δ protein bands from the Western-Blot. The images were subjected to a densitometric analysis with a G-Box Densitometer. Bands were quantified by scanning densitometry with the exposure in the linear range using Gene Tools software (Syngene, Cambridge, UK) and the protein levels were expressed in arbitrary units.

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| **Treatment** | **PPARβ/δ raw values** | **β-actin Raw values** |
| **SS** | 1925320 | 64906 |
| **PF** | 851946 | 31050 |
| **LEP** | 2024607 | 35348 |
| **LEP+GSK0660** | 1343505 | 45556 |
| **SS** | 1487540 | 49111 |
| **PF** | 1081184 | 37342 |
| **LEP** | 1963422 | 34122 |
| **LEP+GSK0660** | 1220781 | 39701 |