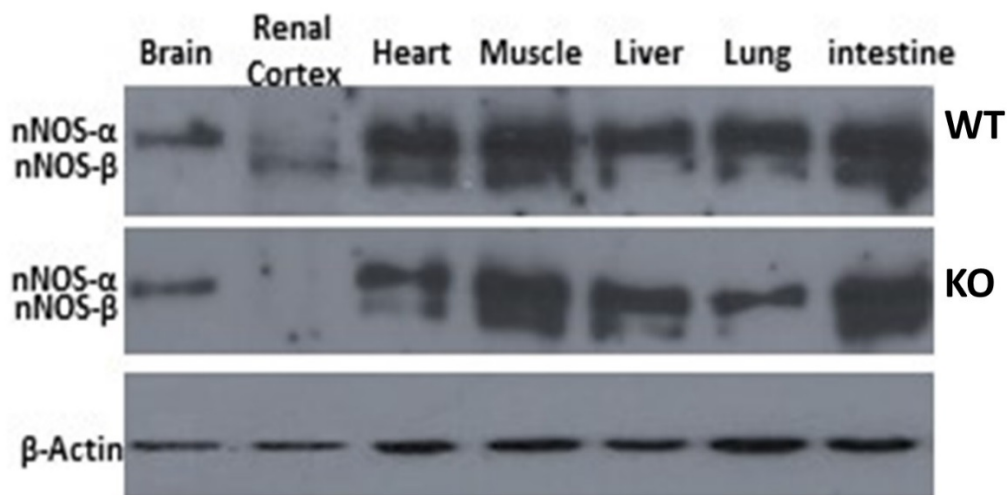


Supplemental Data:

NOS1 expression: NOS1 expression in other tissue was measured with Western Blot. As shown in Fig S-1, there was no difference in expression levels of NOS1 α and NOS1 β in brain, heart, muscle, liver, lung and intestine between WT and MD-NOS1KO mice, only the NOS1 expression in renal cortex was absent in MD-NOS1KO mice.

Fig S-1. NOS1 expressions



Genotyping

DNA was isolated from tail snips and amplified by RT-PCR using specific primers.

Genotyping of NOS1 flox mice: The primer sequences for NOS1 flox were as follow:

Forward, Int6: 5'-TGTTCCATGCACTGTGTTAGC-3';

Reverse, 3.5B: 5'-GATACGTGTAGAGGGCAAATG-3'

Wild type mice presented 1 band at 421bp. Heterozygote of NOS1 floxed mice presented 2 bands at 421bp and 484bp. Homozygote floxed mice presented 1 band at 484bp.

Genotyping of NKCC2 Cre: NKCC2 Cre primers sequences were as follow:

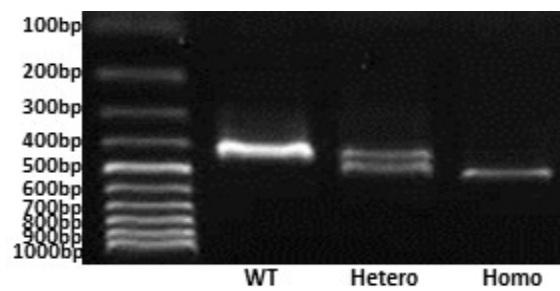
Forward: 5'- CTGCCACGACCAAGTGACAGC-3';

Reverse: 5'- CTTCTCTACACCTGCGGTGCT-3'

Wild type presented no bands. NKCC2-Cre mice presented 1 band at 0.33kb.

Fig S-2. Genotyping of NKCC2-cre, NOS1 flox and MD-NOS1KO mice

A. NOS1 flox



B. NKCC2-cre

