

Supplemental Material

Increasing Tetrahydrobiopterin in Cardiomyocytes Adversely Affects Cardiac Redox State and Mitochondrial Function Independently of Changes in NO Production

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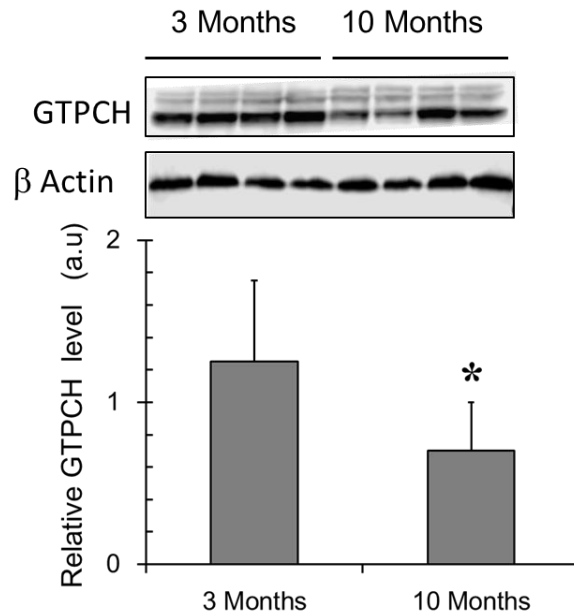


Figure 1Suppl. GTP cyclohydrolase I expression levels in the LV tissue from 3- and 10 month old transgenic mice. Freshly obtained tissue was homogenized and proteins were resolved by PAGE-SDS. Values are Mean±SD n=4 samples. *p<0.05

Table I. Aconitase activity in cytosolic and mitochondrial fractions obtained from 1, 3 and 10 month old heart overexpressing GTP cyclohydrolase. Enzyme activity was determined at 25°C following the conversion of isocitrate to cis-aconitate as described in Materials and Methods. Values are Mean±S.D of n=3 except for 1 month n=2. *p=0.05.

Age	Cytosolic	Mitochondrial
<i>Months</i>	<i>mUnits/mg protein</i>	
1	24.3	8.1
3	28.0±4.2	12.2±2.2
12	20.4±3.4*	13.3±3.0