

Pressure overload-induced cardiac hypertrophy in rats

Gold standard and predictive model to study efficacy of compounds on cardiac hypertrophy and associated heart failure

MODEL FEATURES

- Wistar rats - Transverse aortic constriction (TAC)
- Cardiac dysfunction / heart failure
- Cardiac remodeling with left ventricle dilation and hypertrophy

Reference compounds: ACE inhibitors, AT1 blockers

KEY PARAMETERS

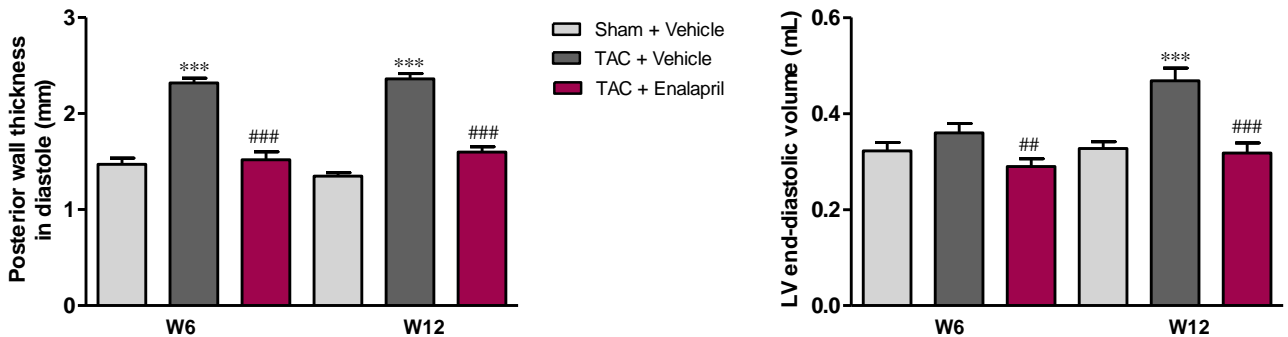
- Cardiac function and geometry (Echocardiography)
- Invasive left ventricle function (Millar probe)
- Histology, gene / protein expression, biomarkers assays

Please contact us for customized protocol

PHARMACOLOGICAL VALIDATION WITH ENALAPRIL, AN ACE INHIBITOR

Echocardiography 6 and 12 weeks after TAC (start of treatment: 2 days post-TAC) – Millar catheter 12 weeks after TAC (Full data package upon request)

➤ Enalapril prevents TAC induced-left ventricle hypertrophy and progressive dilation



➤ Enalapril improves cardiac function from 6 weeks post-TAC and reduces filling pressure at wk 12

