

Isolated blood vessels – Myograph method

Predictive method to evaluate direct drug effects of compounds on vasculature providing valuable insight into potential blood pressure liabilities

TECHNIQUE FEATURES

- o Organ bath system / Isometric tension
- o Isolated blood vessels from mouse, rat and hamster
- o Thoracic or abdominal aorta
- o Healthy and physio-pathological models

Reference compound: ACE inhibitor

KEY PARAMETERS

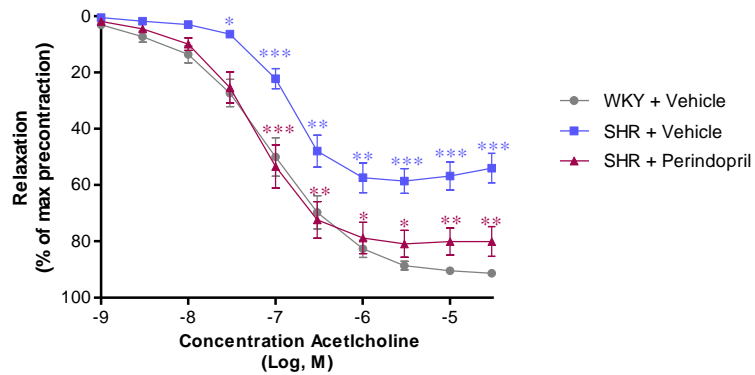
- o Vascular contraction
- o Endothelium dependent and independent relaxation
- o Modulation of vascular reactivity
- o Protein / gene expression

Please contact us for customized protocol

PHARMACOLOGICAL VALIDATION WITH PERINDOPRIL, AN ACE INHIBITOR

Direct effect of perindopril in aortic rings from SHR (Full data package upon request)

➤ Perindopril improves acetylcholine-induced endothelium dependent relaxation in aortic rings of SHR



VASCULAR FUNCTION CHARACTERIZATION IN PHYSIO-PATHOLOGICAL MODELS

Vascular function assessment in aortic rings from diabetic mice (db/db)

➤ Enhanced sensitivity to contractile agents, impaired endothelium relaxation and diminished vascular smooth muscle sensitivity to nitric oxide are observed in aortic rings of diabetic mice

