

Ischemia reperfusion injury

Gold standard model of acute myocardial infarction

Predictive model to test cardioprotective effects of compounds on ischemic or reperfusion injuries

MODEL FEATURES

- Wistar or Sprague dawley rats, C57Bl6J mice
- Transient coronary artery ligation
- Tailor made protocol for myocardial infarction, reperfusion-induced arrhythmias, reperfusion injuries

Reference compounds: Na^+/H^+ exchanger inhibitor

KEY PARAMETERS

- Infarct size and area at risk quantification
- Invasive left ventricle function ((Millar probe)
- Arrhythmias (Electrocardiogram)
- Biomarkers assays

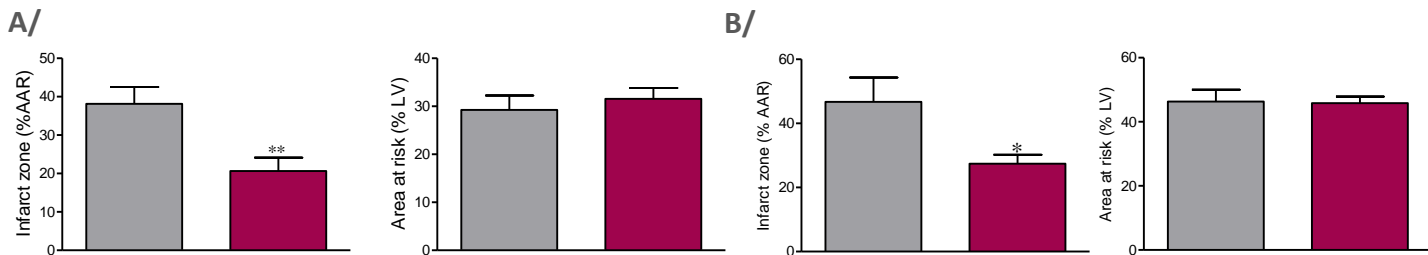
Please contact us for tailor made protocol
Full data package upon request

PHARMACOLOGICAL VALIDATION WITH CARIPORIDE, A Na^+/H^+ EXCHANGER INHIBITOR

Ischemia (30 minutes) followed by reperfusion (2h) in SD rats and C57Bl6J mice, Blue Evans and TTC staining

Cariporide alleviates myocardial I/R injury by reducing infarct size in both rat (A) and mouse (B)

■ Vehicle ■ Cariporide



EFFECTS OF ENERGETIC FUELS MODULATION DURING ISCHEMIA-REPERFUSION INJURY

Ischemia (30 minutes) followed by reperfusion (2h) in fed and fasted SD rats, pressure Millar catheter

➤ Glucose / ketone imbalance induced by fasting exacerbates ischemic injury and decreases left ventricle contractility

■ Fed ■ Fasted

