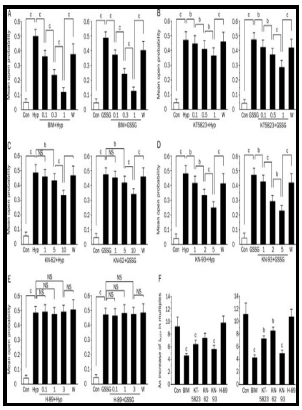
Study of adenosine triphosphate-sensitive potassium channels in rat hearts

De MontfortUniversity - Role of mitochondrial ATP



Description: -
-study of adenosine triphosphate-sensitive potassium channels in rat hearts
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Notes: Thesis (Ph.D) - De Montfort University, Leicester 1996.
This edition was published in 1996

Tags: #Activation #of #SUR2B/Kir6.1 #subtype #of #adenosine #triphosphate

Prolonged donor heart preservation with pinacidil: The role of mitochondria and the mitochondrial adenosine triphosphate

The site of action of ApnA is most likely intracellular, as these molecules are poorly membrane permeable and so far there is no evidence for fast ApnA uptake in ventricular cardiomyocytes Walker et al.

Ischemic preconditioning with opening of mitochondrial adenosine triphosphate

Findings in isolated ventricular myocytes suggest that this coupling may occur through G proteins. The content of serum nitric oxide and plasma prostacyclin was increased, whereas that of plasma endothelin-1 and cardiac tissue hydroxyproline and atrial and B-type natriuretic peptide messenger RNA was downregulated in natakalim-treated rats. Collagenase Yakult, Tokyo, Japan and pronase Sigma were used for enzymatic dissociation.

Activation of SUR2B/Kir6.1 subtype of adenosine triphosphate

The K ATPchannels appear to play a role in maintaining basal coronary vascular tone and in the coronary vasodilation associated with increased myocardial oxygen consumption MVO 2 and reduced coronary perfusion pressure.

Role of mitochondrial ATP

Glyburide completely abolished the cardioprotective effects of bimakalim. Coronary blood flow CBF was measured using a Doppler flow transducer, and segmental shortening SS was measured with ultrasonic crystals.

Blockade of Adenosine Triphosphate

The CK level in the coronary effluent during reperfusion was also significantly reduced by ISO. Untreated, they may experience seizures, apnea, and death.

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The patch clamp technique was employed on isolated cardiomyocytes in the inside-out configuration. In the pancreatic β cell, SUR1 and KIR6. The venous blood sample was paired with a 1-ml arterial blood sample obtained from the LAD perfusion tubing, so that the arteriovenous difference for oxygen could be determined.

Effect of adenosine triphosphate

The coronary venous blood was returned intermittently to the dog to maintain isovolemic conditions. These systemic hemodynamic effects of intracoronary halothane were a consistent finding during the study. Therefore, we should be careful in extending the current results to the human heart.

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