TECHNO MARKET - By Ouest Valorisation

L'accompagnement sur-mesure de vos projets d'innovation

Notre mission :
Proposer aux entreprises des ressources d'innovation attractives issues de plus de 160 laboratoires et 7200 chercheurs.

# Cardioprotection after myocardial infarction

Microparticles (MPS) are small fragments generated from the plasma membrane after cell stimulation. Membrane microparticles (MPs) derived from activated/apoptotic T cells contain Sonic-HedgeHog (MPSHh+) and are able to regulate angiogenesis in vitro.

How can MPs be used to improve endothelial function and reduce damage caused by ischemia/reperfusion and myocardial infarction ?

Several studies have been conducted to determine how MPs can be used to improve endothelial function and reduce damage caused by ischemia/reperfusion and myocardial infarction. The results of these studies are as follows:
- Injection of MPSHh+ in mice improves endothelial function by increasing the release of NO, and it reverses endothelial dysfunction after ischemia/reperfusion
- In a mouse and pig model of myocardial infarction, MPSSHh injection reduces infarction size and reperfusion arrhythmias by preventing QT enlargement
- MPSSHh via the Shh signaling pathway protects the myocardium from reperfusion injury after acute myocardial infarction
These results suggest that MPs can be used as pharmacological tools to reduce deleterious signals in the vascular wall and protect the myocardium from reperfusion injury after acute myocardial infarction.

Cette solution est faite pour vous si vous êtes :

- Une entreprise qui souhaite utiliser la solution
- Une entreprise qui souhaite commercialiser la solution
- Une entreprise qui souhaite adapter la solution à son besoin

Nature de l'offre :

- Low side effects
- Reduction of infarct size
- Reduction of reperfusion arrhythmias

Domaines d'application :

- Système cardio-vasculaire

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