NBCe1 Na+-HCO3- Cotransporter Ablation Causes Reduced Apoptosis F

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作者：Y Liu - 2014 - 被引用次数：34 - 相关文章

AGGF1 protects from myocardial ischemia/reperfusion injury by regulating myocardial apoptosis and angiogenesis. ... In conclusion, we report the first in vivo and in vitro evidence that AGGF1 reduces myocardial apoptosis and inflammation and enhances angiogenesis, leading to decreased infarct size after I/R injury.

缺少字词： ~~nbce1~~ ~~na~~ ~~hco3~~ ~~cotransporter~~ ~~ablation~~ ~~causes~~

Protection against in vivo focal myocardial ischemia/reperfusion injury ...

https://www.ncbi.nlm.nih.gov/pubmed/19579067 ▾ 翻译此页

作者：C Gandhi - 2009 - 被引用次数：37 - 相关文章

2009年7月3日 - Protection against in vivo focal myocardial ischemia/reperfusion injury-induced arrhythmias and apoptosis by hesperidin. Gandhi C(1) ... Treatment with hesperidin showed a significant increase in tissue nitrite, antioxidant level and reduction in inflammation, arrhythmias and apoptosis. In conclusion, the ...

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The Na+/Ca2+ exchanger in cardiac ischemia/reperfusion injury

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作者：S Chen - 2012 - 被引用次数：27 - 相关文章

2012年11月1日 - The Na^+/Ca^{2+} exchanger (NCX) is an important electrogenic transporter in maintaining Na^+ and Ca^{2+} homeostasis in a variety of mammalian organs, and is ... The role of the NCX in heart

Name of Journal: *World Journal of Cardiology*

Manuscript NO: 39241

Manuscript Type: ORIGINAL ARTICLE

Basic Study

NBCe1 Na^+-HCO_3^- cotransporter ablation causes reduced apoptosis following cardiac ischemia-reperfusion injury *in vivo*

Kanimozhi Vairamani, Vikram Prasad, Yigang Wang, Wei Huang, Yinhua Chen, Mario Medvedovic, John N Lorenz, Gary E Shull

Abstract

AIM: To investigate the hypothesis that cardiomyocyte-specific loss of the electrogenic NBCe1 Na^+-HCO_3^- cotransporter is cardioprotective during *in vivo* ischemia-reperfusion (IR) injury.

METHODS: An NBCe1 (*Slc4a4* gene) conditional knockout mouse (KO) model was prepared by gene targeting. Cardiovascular performance of wild-type (WT) and cardiac-specific NBCe1 KO mice was analyzed by intraventricular pressure

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作者：C Gandhi - 2009 - 被引用次数：38 - 相关文章
Cardiac arrhythmias during ischemia reperfusion are believed to be related to ... antioxidant level and reduction in inflammation, arrhythmias and apoptosis.
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The Na+/Ca2+ exchanger in cardiac ischemia/reperfusion injury
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作者：S Chen - 2012 - 被引用次数：29 - 相关文章
2012年11月1日 - The Na^+/Ca^{2+} exchanger in cardiac ischemia/reperfusion injury ... The role of the NCX in heart cells following ischemia/reperfusion (IR) has been ... We have reviewed the major in vivo and in vitro cardiac IR-related NCX studies in ... Ischemia/reperfusion (IR) injury is the tissue damage caused when blood ...
缺少字词： ~~nbce1~~ ~~hco3~~

N8 (Human) Na+/Ca2+-K+ Exchanger Na+/HCO3 Cotransporter ...
https://link.springer.com/content/pdf/10.1007%2F978-3-319-67199-4_101778.pdf
NBCe1 with that of NBCn1 abolishes the electro- ..... ment caused by loss of the sodium bicarbonate ..... sues to control cell growth, apoptosis, proliferation, ... also found to reduce cardiac ischemia-reperfusion injury. All these beneficial effects ..... in vivo to promote neuronal survival following cerebral ischemia. J Cell Biol.

Ischemia/Reperfusion Injury Research | Tocris Bioscience
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https://www.researchgate.net/scientific-contributions/40068213_Gary_E_Shull

Loss of the AE3 $Cl^-/HCO3^-$ exchanger (Slc4a3) in mice causes an impaired cardiac .... The electrogenic Na^+HCO3- cotransporter NBCe1 (Slc4a4) is strongly .... Genetic ablation of ClC-2 resulted in reduced gastric gland region, reduced ..... on ischemia-reperfusion injury in isolated hearts or cardiac performance in vivo.

Isoflurane produces sustained cardiac protection after ischemia ...

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作者：YM Tsutsumi - 2006 - 被引用次数：51 - 相关文章

BACKGROUND: Isoflurane reduces myocardial ischemia-reperfusion injury within ... and the relevance of this protection to myocardial function and apoptosis. ... functionally relevant 2 weeks after ischemia-reperfusion injury in mice in vivo.

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The Na+/Ca2+ exchanger in cardiac ischemia/reperfusion injury

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Increase in Cardiac Ischemia-Reperfusion Injuries in Opa1+/- Mouse ...

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作者：S Le Page - 2016 - 被引用次数：9 - 相关文章

2016年10月10日 - After subjection to I/R, infarct size was significantly greater in Opa1+/- than ... other main fission/fusion protein, oxidative phosphorylation, apoptotic markers, ... investigate whether Opa1 deficiency would influence cardiac I/R injury in vivo. ..... Effects of overexpression of the Na+-Ca2+ exchanger on [Ca2+]i ...

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Mechanisms Underlying Acute Protection from Cardiac Ischemia ...

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