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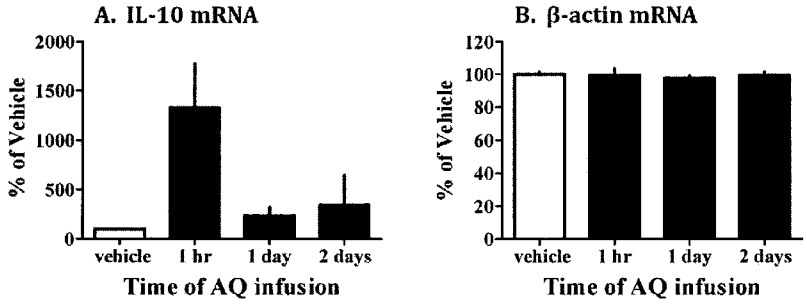
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(54) Title: APOAEQUORIN FOR REDUCING NEURONAL INJURY DUE TO ISCHEMIA



(57) Abstract: The present invention provides apoaequorin-based compositions and methods for preconditioning neurons in a subject to reduce neuronal injury due to brain ischemia. Methods include the step of administering apoaequorin to neurons in a subject, wherein the apoaequorin initiates a change in cytokine expression levels resulting in a reduction of neuronal injury due to brain ischemia as compared to neurons not administered the apoaequorin. Various formulations, including injectable dosages, are described.

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