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Edaravone, a free radical scavenger, protects neuronal cells' mitochondria from ischemia by inactivating another new critical factor of the 5-lipoxygenase pathway affecting the arachidonic acid metabolism

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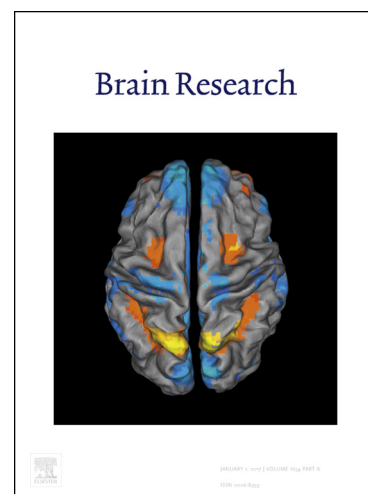
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Edaravone, a free radical scavenger, protects neuronal cells' mitochondria from ischemia by inactivating another new critical factor of the 5-lipoxygenase pathway affecting the arachidonic acid metabolism

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Abbreviations:

5-LOX, 5-lipoxygenase; MCAO, middle cerebral artery occlusion; OGD, oxygen glucose deprivation; OGD-R, OGD-reperfusion; CysLTs, cysteinyl leukotrienes; MTT, 3-(4,5-dimethyl-2-thiazolyl)-2,5-diphenyl-2-H-tetrazolium bromide; ROS, reactive oxygen species.

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