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Oxidatively modified glyceraldehyde-3-phosphate dehydrogenase in neurodegenerative processes and the role of low molecular weights compounds in counteracting its aggregation and nuclear translocation

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Highlights:

- Oxidatively modified GAPDH participates in the development of neurodegenerative processes.
- GAPDH may serve as a target for low molecular weight compounds with a potential to slow down or prevent the progression of neurodegenerative disorders.
- Low molecular weight compounds might counteract the oxidation of GAPDH and consequently its aggregation and translocation to the nucleus.

Abstract

A number of independent studies have shown the contribution of glyceraldehyde-3-phosphate dehydrogenase (GAPDH) in the pathogenesis of several neurodegenerative disorders. Indeed,

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