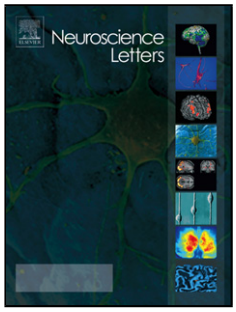

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Changes in salsolinol production and salsolinol synthase activity in Parkinson's disease model

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Highlights

- The activity of salsolinol synthase was changed in both cell and rat models of Parkinson's disease.
- The level of salsolinol was significantly increased in the midbrain region of Parkinson's disease model.
- There is closely positive correlation between concentration of endogenous neurotoxin and the pathogenesis of Parkinson's disease.

Abstract:

Salsolinol is an endogenous neurotoxin derived from dopamine, and has been proved to cause the apoptosis of the dopaminergic neurons involved in the pathogenesis of Parkinson's disease (PD). Salsolinol synthase is the key enzyme in the biosynthesis of salsolinol, and its activity exists in most regions of rat brain. However, the activity