# Marine-derived compounds, VP83 and VP88, with neuroprotective effects against 6-OHDA-induced apoptosis in vitro and in vivo.

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There are some characteristics of Parkinson’s disease(PD), such as the loss of the dopaminergic neurons in the substantia nigra, and aggregation of misfolded a-synuclein. The etiology of PD also included neuroinflammation, oxidative stress, ER stress and mitochondrial dysfunction. However, only few drugs on the market could slow the progression of PD. Besides, all of them had severe side effects. In previous study, an in vivo Parkinson's disease zebrafish model induced by 6-OHDA have been developed for the screening of a small volumes of drugs or compounds. In our study, we intended to use the 6-OHDA-induced SH-SY5Y cell model and zebrafish model of PD for drug screening.