

综述

促红细胞生成素的神经保护作用

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摘要

EPO主要的生理功能是调节红细胞生成,而研究发现EPO系统在神经系统的广泛分布,提示其可能对中枢神经系统具有重要作用。EPO还对缺血缺氧神经系统具有保护作用并具有临床应用前景。EPO发挥神经保护作用主要通过活化特异性受体、激活下游的多种信号转导通路及通过多种可能的作用机制发挥缺氧神经保护作用。

关键词 [促红细胞生成素](#) [缺血; 缺氧](#) [神经组织](#)

分类号

Protective effects of EPO on nerve tissues

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Abstract

Recent studies have showed that, besides the function of stimulating the growth of red blood cell (RBC), erythropoietin (EPO) and Epo-R also has protective effects on ischemia-hypoxic nerve tissues, and more and more studies proved this effects. After binding to the specific receptor, EPO activates several signal transduction pathway downstream and protect the hypoxia nerve tissue by multi-pathway. It have been applied in the treatment of many clinical diseases. But the mechanism and possible signal transduction pathway of the neuroprotective effect, the clinical application and the notable issues in future application of EPO need more studies.

Key words [EPO; ischemia; hypoxicia; nerve tissues](#)

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