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**Review**

## Role of nuclear factor $\kappa$ B in the central nervous system

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**Abstract:**

The aim of this review was to assemble current literature data on nuclear factor kappa B (NF- $\kappa$ B). Many authors believe that NF- $\kappa$ B, a transcription factor, has essential influence on the regulation of numerous genes in the organism. In this review, we have focused on the role of NF- $\kappa$ B and its target genes in the central nervous system functioning. Unfortunately, the contribution of NF- $\kappa$ B to neuroprotection or to neurodegeneration is not clear, yet. Therefore, its exact role in these processes and potential applications in pharmacology are still to be determined.

**Key words:**

NF- $\kappa$ B, neuroprotection, neurodegeneration

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