

Abstract

The present invention relates to the field of chemical and pharmaceutical technologies, in particular to a polypeptide and its use as a CCK receptor agonist/antagonist. Experiments show that the polypeptide provided by the present invention has a high agonistic/antagonistic activity on CCK receptors. Compared with the polypeptide CCK4, the polypeptide according to the present invention has a longer half-life and duration of efficacy in vivo. Experiments show that the polypeptide according to the present invention produces a significant improvement on the spatial memory deficiency of senile mice, memory-deficient senile mice, and Alzheimer's mice, and thus has a great application potential.

No Figure