

عنوان مقاله:

Molecular Docking of the Protein Kinase c gamma, A newtarget for spinocerebellar ataxia type ۱۴, with dopamine likeagonist compounds

محل انتشار:

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نویسندگان:

Negin Shamani - *Department of Biology, Mashhad Branch, Islamic Azad University, Mashhad, Iran*

Mohammad Reza Bozorgmehr - *Department of Chemistry, Mashhad Branch, Islamic Azad University, Mashhad, Iran*

خلاصه مقاله:

Spinocerebellar ataxia type ۱۴ (SCA۱۴) is characterized by slowly progressive cerebellar ataxia, dysarthria, Axial myoclonus, cognitive impairment, tremor, and sensory loss may also be observed. The average age of onset is in the ۳۰s, with a range from childhood to the seventh decade. Life span is not shortened. mutations inPRKCG (encoding PKCγ) may occur in SCA۱۴. This study developed to predict ۱۲ dopamine like compounds agonists (DA) have binding affinity to protein kinase C gamma (PKCγ). PKCγ has three chains. PockDrugserver and chimera software were used to determine the suitable chain for docking. Docking calculations were performed with autodock vina wizard in PyRx ۰.۸ software. Docking results showed that the Adaprin, Menbutone and Benzoyl benzoate were obtained as the best compound in the binding to the binding site of the protein. Also, the results show that the dominant force in the interaction of these ligands with the PRKCG is hydrophobic forces

کلمات کلیدی:

spinocerebellar ataxia type ۱۴, protein kinase c gamma, dopamine agonists, Molecular docking

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