

عنوان مقاله:

Docking of helicase, main protease, papain-like protease, and RNA-dependent RNA polymerase of SARS-CoV-Y by theaflavin-\(\mathbf{P}\)-gallate

محل انتشار:

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خلاصه مقاله:

Polyphenol phytochemicals have obtained huge attention owing to their numerous therapeutic applications. Green, oolong, and black teas are the main sources of abundant polyphenols. Theaflavins are a large group of polyphenols isolated from oolong and black tea. Theaflavins have shown various therapeutic advantages, specifically antimicrobial activity. Hear, the antiviral effect of theaflavin-\(\mathbf{v}\)-gallate as one the main theaflavins against severe acute respiratory syndrome coronavirus Y (SARS-CoV-Y) has been investigated by molecular docking study. This study exhibited the best binding affinity for the interaction of the theaflavin-٣-gallate ligand with SARS-CoV-۲ helicase NSP١٣ with a Vina score of -1o. " kcal/mol compared with theaflavin-"-gallate and spike protein S1 complex with a lowest binding affinity of -A.Y kcal/mol. For a better understanding of the antiviral activity of theaflavin-\(\mu\)-gallate compound, experimental in vitro .and in vivo studies about other bioactive compounds and drugs are needed

צומויי צוגרט: theaflavins, polyphenols, Theaflavin-۳-gallate, Oolong tea, Black tea, Helicase NSP שיי

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