Abstract

Protein Tyrosine Phosphatase 1B (PTP1B) is an enzyme that plays a critical role in
down-regulating insulin signaling through dephosphorylation of the insulin receptor. Inhibitors of
PTP1B showed increased insulin sensitivity and normalize plasma glucose level and thus are
use full therapeutic agents for the treatment of diabetes. The aim of the current study is to
identify PTP1B inhibitors by means of virtual screening with docking. Six food dyes molecules
have been screened and based on energy MolDok scores and hydrogen bonding interactions.
L5, L1 potential inhibitors were identified in cavity1 and 2 respectively.

References

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7(4), 385-395.

Index Terms

Computer Science

Applied Sciences
Keywords

Diabetes  PTP1B  Food dyes  Interactions  Molecular Docking.