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Design, synthesis and evaluation of novel ferulic acid-*O*-alkylamine derivatives as potential multifunctional agents for the treatment of Alzheimer's disease

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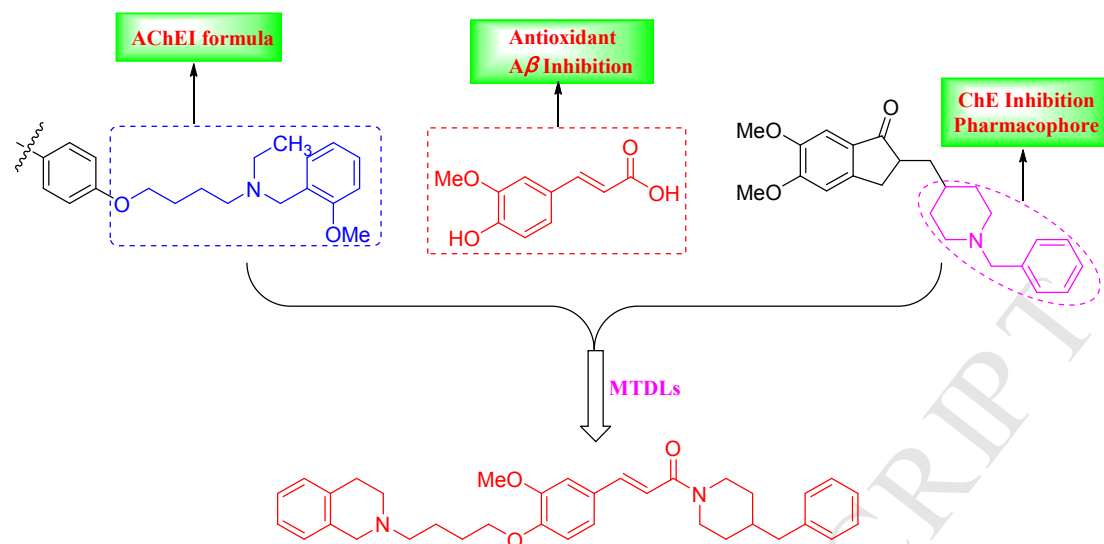
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***EqBuChE* IC<sub>50</sub> = 0.021  $\mu$ M**

***EeAChE* IC<sub>50</sub> = 2.13  $\mu$ M**

**Antioxidant (0.55 eq of Trolox)**

**Inhibit self-induced  $A\beta$  aggregation: 50.8%**

**Disaggregate self-induced  $A\beta$ <sub>1-42</sub> aggregation: 38.7%**

**Neuroprotective effect on H<sub>2</sub>O<sub>2</sub> induced PC12 cell injury**

**Reversed scopolamine-induced memory deficit in mice**

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