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Aurone Mannich base derivatives as promising multifunctional agents with acetylcholinesterase inhibition, *anti- β* -amyloid aggregation and neuroprotective properties for the treatment of Alzheimer's disease

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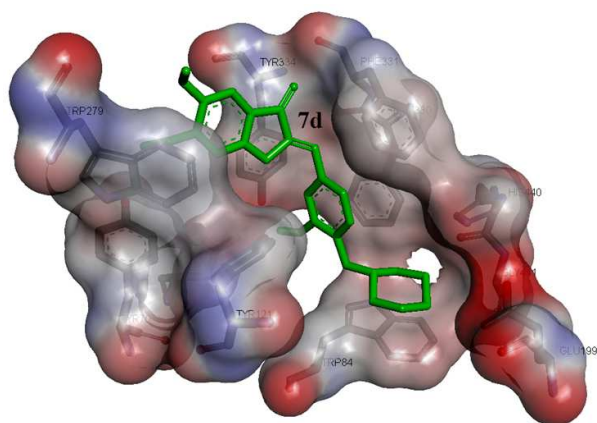
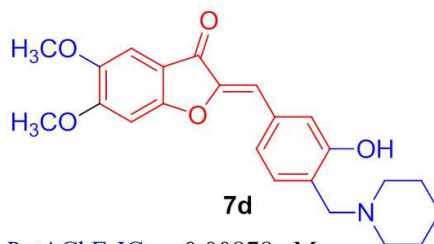
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Graphical abstract

**7d in the gorge of *TcAChE****RatAChE* IC₅₀ : 0.00878 μM*EeAChE* IC₅₀ : 0.0212 μM*HuAChE* IC₅₀ : 0.0371 μM

ORAC-FL value : 1.66 Trolox equiv

Inhibition of self-induced Aβ₁₋₄₂ aggregation : 58.1%Inhibition of Cu²⁺-induced Aβ₁₋₄₂ aggregation : 45.1%

Neuroprotective effect and high BBB permeability

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