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Synthesis and structure-activity relationship study of benzofuran-based chalconoids bearing benzylpyridinium moiety as potent acetylcholinesterase inhibitors

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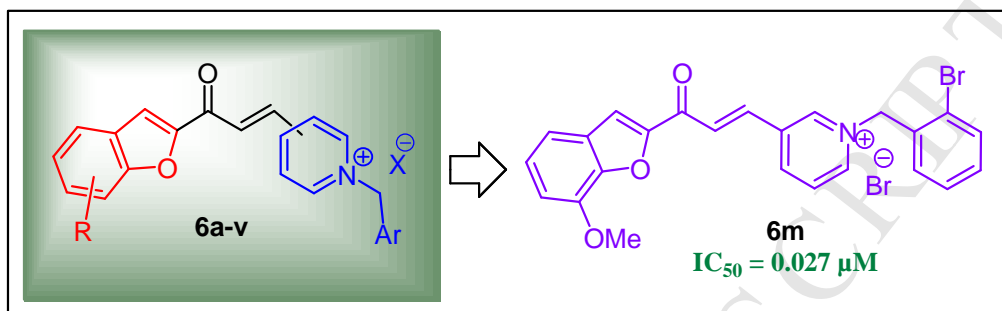
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A series of benzofuran-based chalconoids bearing 3-pyridinium and 4-pyridinium moiety were synthesized as AChE inhibitors. Among them, 3-pyridinium derivative **6m** with $IC_{50} = 0.027 \mu M$ was as potent as donepezil.

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