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Synthesis and biological evaluation of new naphtho- and quinolinocyclopentane derivatives as potent melatoninergic (MT $_1$ /MT $_2$) and serotoninergic (5-HT $_2$ C) dual ligands

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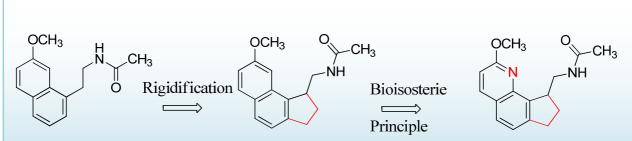
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ACCEPTED MANUSCRIPT GRAPHICAL ABSTRACT



Agomelatine (I)

$Ki (MT_1) = 0.1 nM$ $Ki (MT_2) = 0.2 nM$

Ki $(5HT_{2c}) = 708 \text{ nM}$

Naphthocyclopentane (17a)

$$Ki (MT_1) = 0.3 \text{ nM}$$

 $Ki (MT_2) = 0.2 \text{ nM}$

$Ki (5HT_{2c}) = 61 \text{ nM}$

Quinolinocyclopentane (24a)

 $Ki (MT_1) = 0.4 nM$ $Ki (MT_2) = 0.2 nM$ $Ki (5HT_{2c}) = 160 \text{ nM}$

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