

# A flexible synthetic strategy enabling preparation of novel forskolin analogues

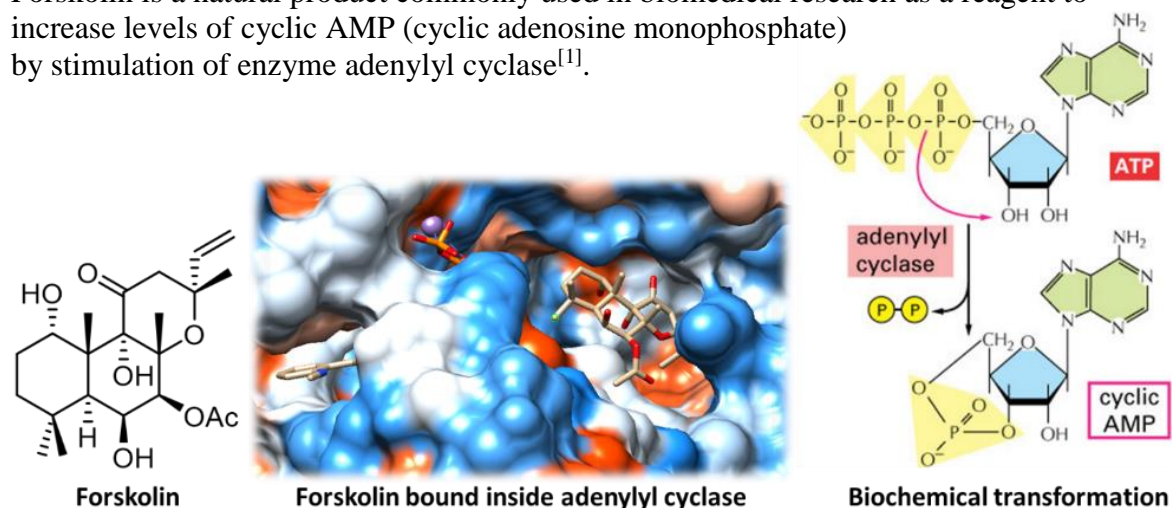
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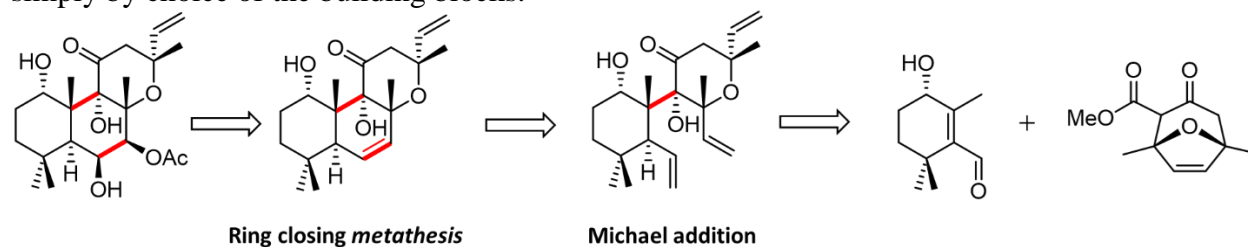
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Forskolin is a natural product commonly used in biomedical research as a reagent to increase levels of cyclic AMP (cyclic adenosine monophosphate) by stimulation of enzyme adenylyl cyclase<sup>[1]</sup>.



Aim of our work is to develop a flexible synthetic route that would enable preparation of novel forskolin analogues not accessible by semisynthesis or published fully synthetic approaches.<sup>[2-6]</sup> Structure of forskolin presents a considerable challenge for synthesis, because of high level of oxidation, dense substitution and rich stereochemistry. Using a convergent approach (strategic bonds in red), we would like to flexibly alter the structure of this natural product at novel positions simply by choice of the building blocks.



## Literature

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