

- Staurosporine was isolated in 1977. Its structure was elucidated by X-ray analysis. It inhibits PKC ($IC_{50} = 2.7 \text{ nM}$).
- More than 50 related indolocarbazole alkaloids have been isolated since and are divided into two subgroups: furanosylated and pyranosylated indolocarbazoles. They have potential in the treatment of cancer and neurodegenerative disorders.
- The first total synthesis of staurosporine was published by Danishefsky. Wood has developed a general approach for the synthesis of both furanosylated and pyranosylated indolocarbazoles.

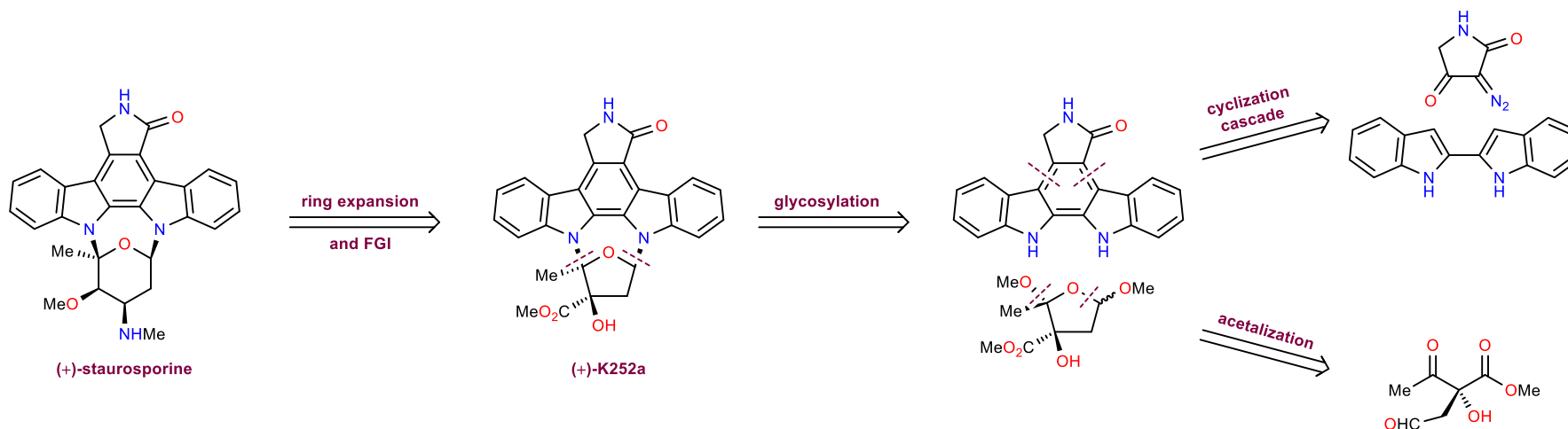
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Retrosynthetic Analysis:



Forward Synthesis:

