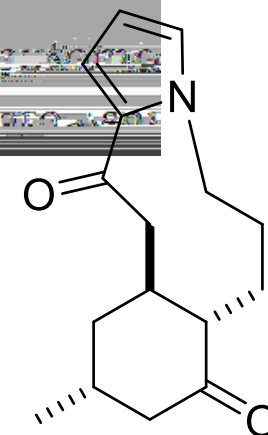


# H

Huperzine H is a *lycopodium* alkaloid that was isolated from the plant *Huperzia serrata* in 1999 by Zhu and co-workers

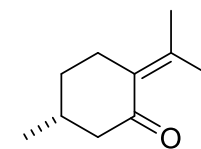
Acts as a cholinesterase inhibitor to improve memory in Alzheimer's disease. It is a natural alkaloid that was isolated from the plant *Huperzia serrata* in 1999 by Zhu and co-workers. It acts as a cholinesterase inhibitor to improve memory in Alzheimer's disease.



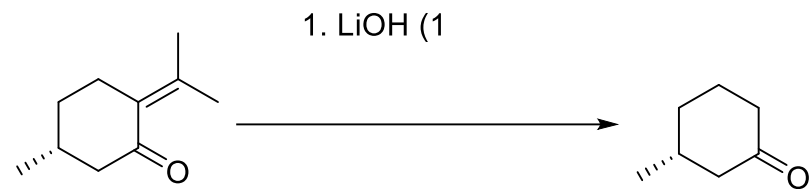
Huperzine H (1)

# Retrosynthetic Analysis

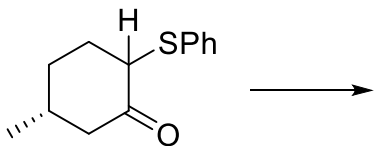
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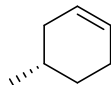
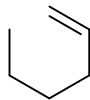


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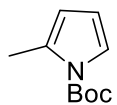


### Alkylation

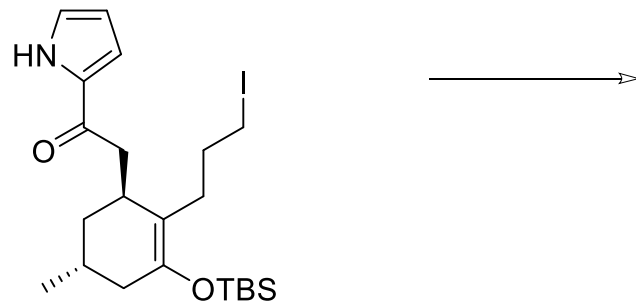
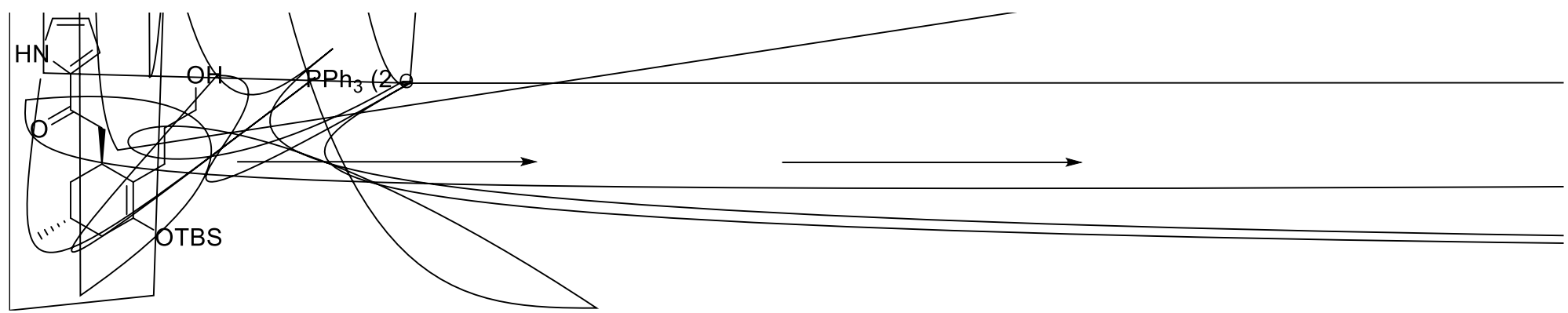


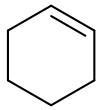


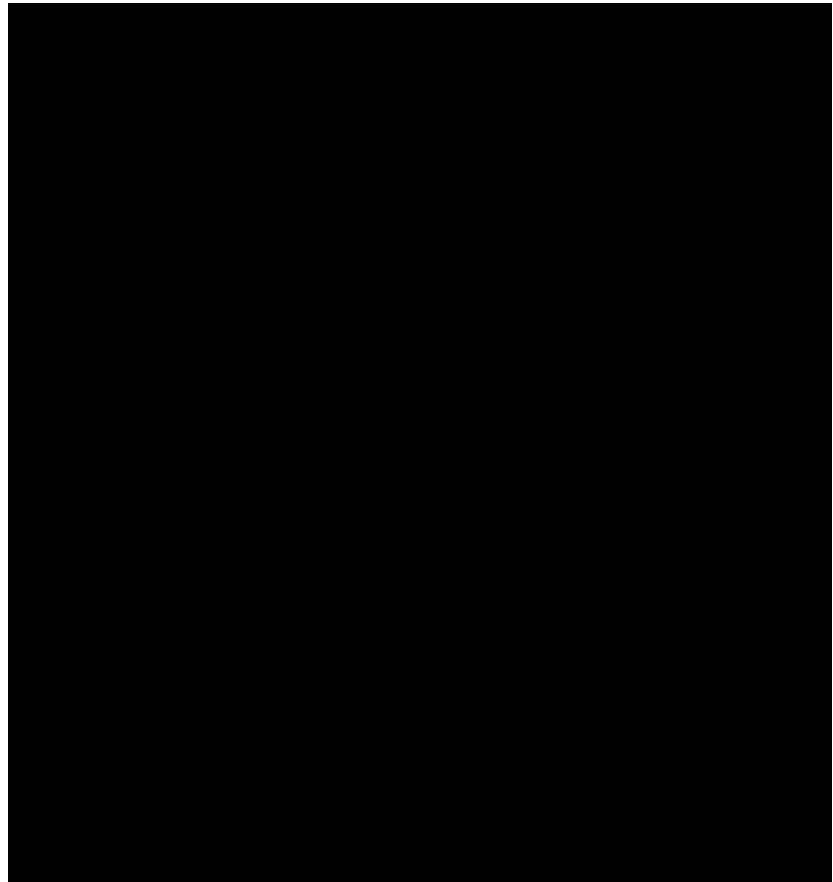
**Acetyl**



**Silyl Enol**







\_\_\_\_\_ : 6.2% overall yield  
\_\_\_\_\_ : 12.1% overall yield