

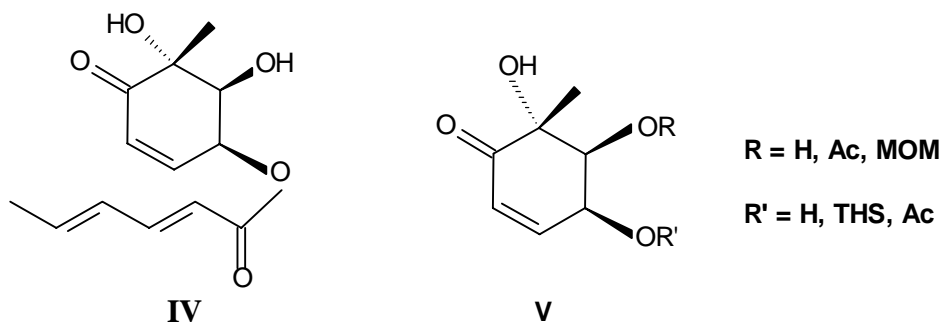


## Experimental

We will present the optimization of the synthetic route to obtain a structure of type **II**, via oxidation reactions and selective protection-deprotection sequences of the hydroxyl groups. We will also present the synthetic approaches to an structure of type **III** which allows the ring A closure through an intramolecular Diels-Alder reaction. We will also discuss the attempts to close ring A using an intermolecular Diels-Alder cycloaddition, studying the viability of the reaction with different dienes and experimental conditions.

## Results and Discussion

We have synthesized enone **IV**, as a model to study the intramolecular Diels-Alder reaction. To date, results have shown serious difficulties in terms of reactivity and stability of the model molecule. That's why we are trying different intermolecular cyclizations with molecules of type **V**, utilizing more reactive dienes.



*Acknowledgments:* CSIC, PEDECIBA, CONICYT.

## References and Notes

1. Gibson, D.; Hensley, M.; Mabry, T. *Biochemistry* **1970**, *9*, 1926.
2. Hudlicky, T.; et al. *Chem.Rev.* **1996**, 1195.
3. Seoane, G.; Brovetto, M.; Schapiro, V.; Cavalli, G.; Sierra, A.; Padilla P. *New Journal of Chemistry* **1999**, *23*, 549-556.