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 Recycling Preparative HPLC  
LaboACE LC-5060

## Separation of compounds that are inseparable by Silica columns 4

### Keyword:

GPC Column, SEC Column, Size Exclusion Chromatography, Recycling Preparative HPLC

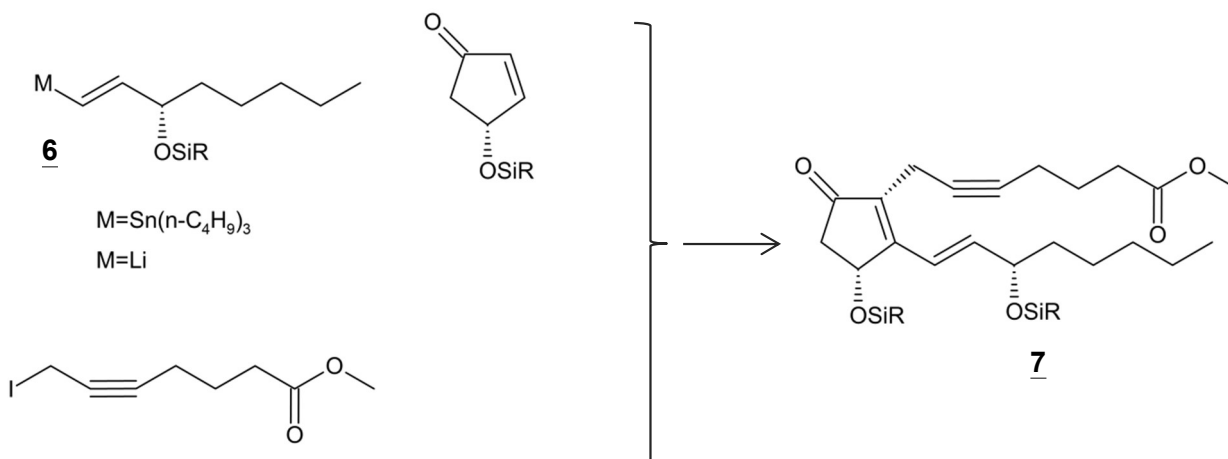
### Introduction

For substances that are unstable against silica-based fillers or that were inseparable by TLC, the combination of GPC (SEC) column and Recycling Preparative HPLC is often a very effective solution.

Here is an example of such studies by a professional who uses our Recycling Preparative HPLC systems.

### Experiment and Results

The useful intermediate for prostaglandins, compound 7, is obtained by reaction of the below three compounds. After the reaction, however, it was extremely difficult to separate the unreacted 6 and the target compound 7 by TLC. So we have tried to do it using GPC column.



### Conclusion

Using a JAIGEL-1H and a JAIGEL-2H connected in series with chloroform as the eluent, compounds 6 and 7 were easily separated with just one cycle .

### References

Yasushi Morita, Masaaki Suzuki and Ryoji Noyori, *J. of Org. Chem.*, Vol. 54, No.8, pp 1785-1787 (1989)