

Facile Entry to the Tetracyclic 5-7-6-3 Tigliane Ring System

Timo V. Ovaska,* Sarah E. Reisman, and Meghan A. Flynn

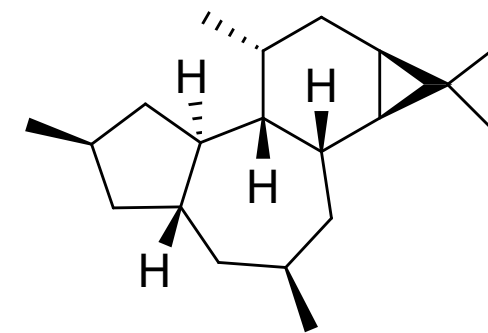
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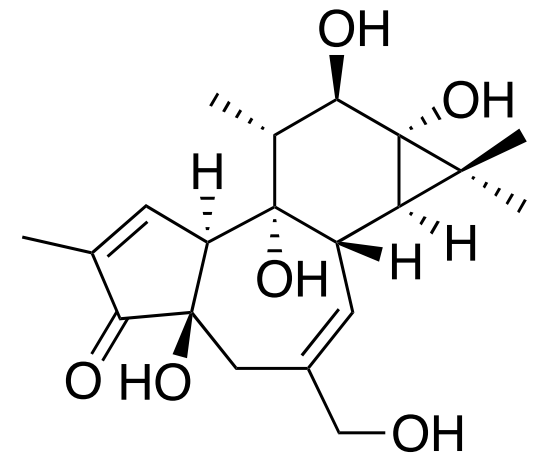


Manuel Gudiño Negrete

Phorbol e Importancia de los Tiglianes

Es un compuesto orgánico natural derivado de planta. Es un miembro de la familia Tigliane perteneciente a los Diterpenos. La estructura de Phorbol se determinó en 1967.

Varios ésteres de Phorbol tienen importantes propiedades biológicas, la más notable de las cuales es la capacidad para actuar como promotores tumorales a través de la activación de la proteína quinasa C (PKC).

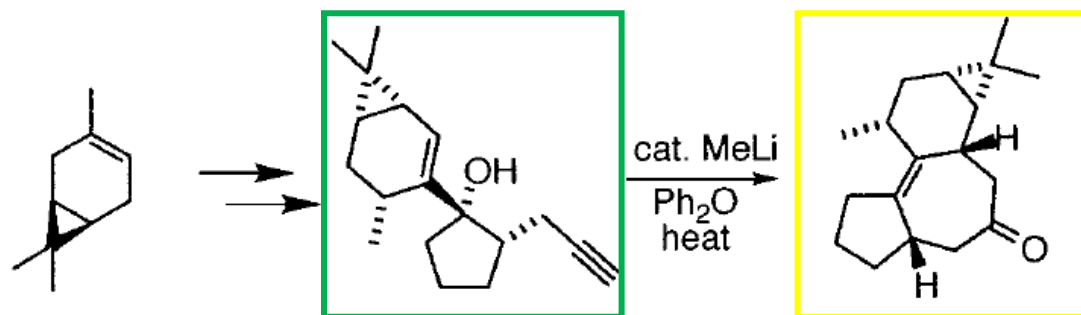


Cancer Res. **48** (1): 1-8. [PMID 3275491](https://pubmed.ncbi.nlm.nih.gov/3275491/)

Tetrahedron Letters **8** (33): 3165-3170 [doi:10.1016/S0040-4039\(01\)89890-7](https://doi.org/10.1016/S0040-4039(01)89890-7)

Molécula Objetivo

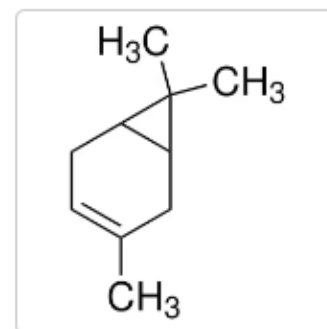
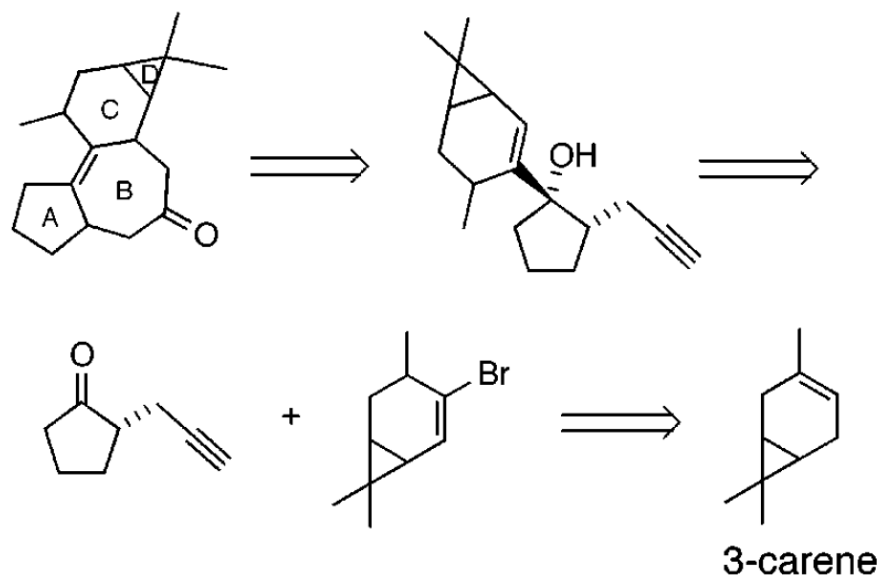
ABSTRACT



A tandem anionic 5-exo-dig cyclization/Claisen rearrangement sequence was used to effect a facile, "one-pot" conversion of an appropriately substituted 4-alkyn-1-ol to the tetracyclic carbon core structure of phorbol. The synthesis was conducted using readily available nonracemic starting materials to provide the target structure as a single enantiomer in high chemical yield.

Estrategia

Scheme 2



115576 ▶ Sigma-Aldrich.

3-Carene

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Seleccione un Tamaño

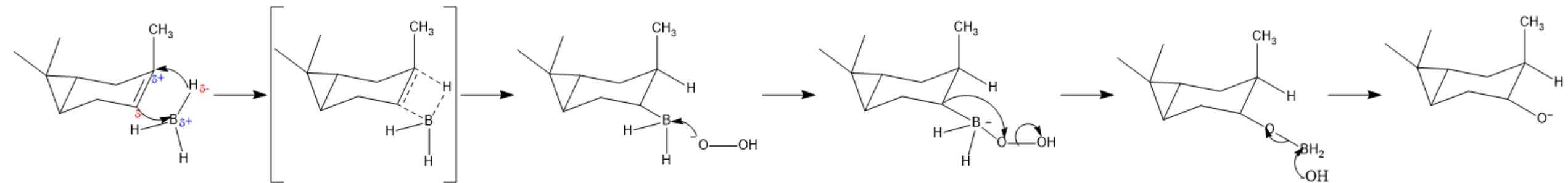
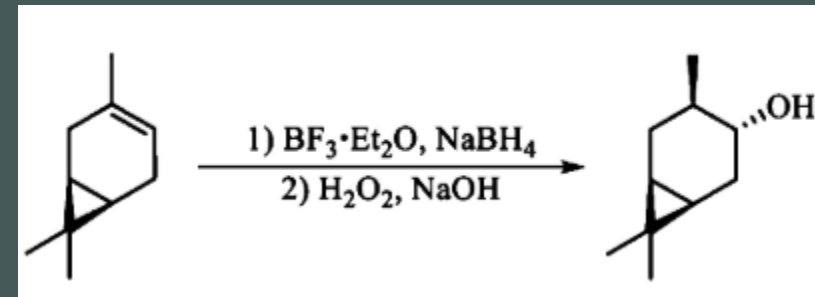
25 ML

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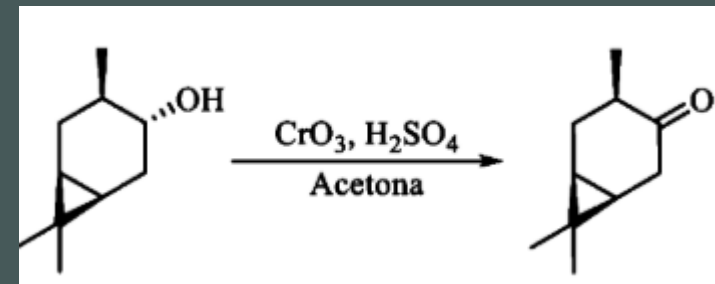
1 L

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Hidroboración-Oxidación

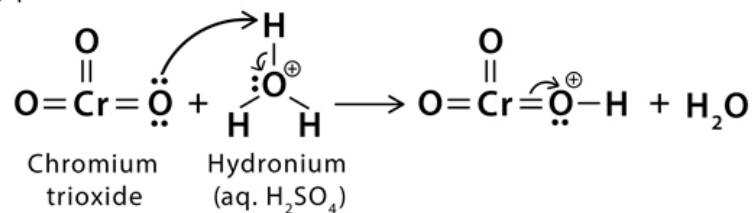


Oxidación de Jones

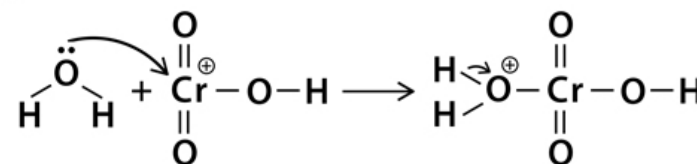


Reaction Mechanism For Preparation of Chromic Acid from Jones Reagent

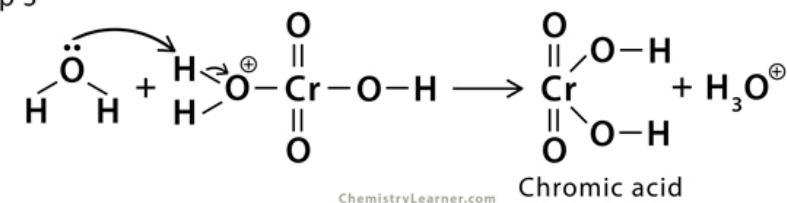
Step 1



Step 2

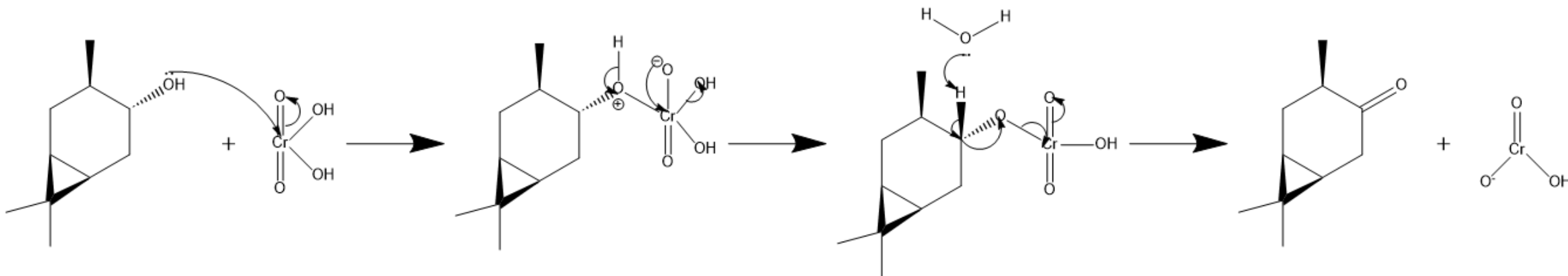


Step 3

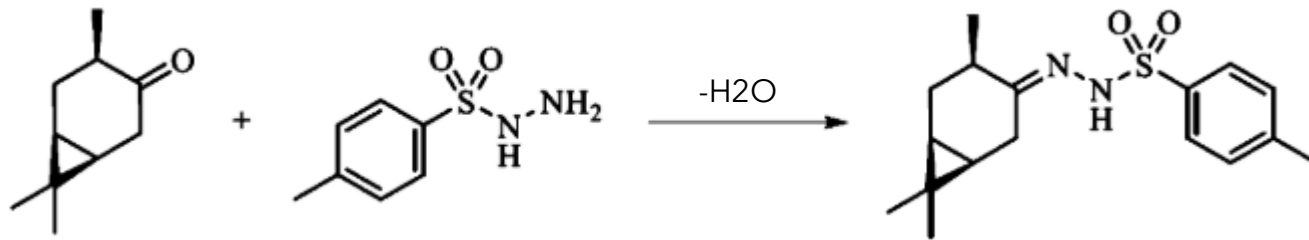
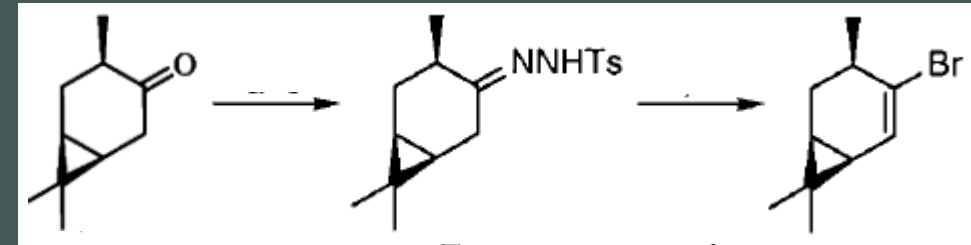


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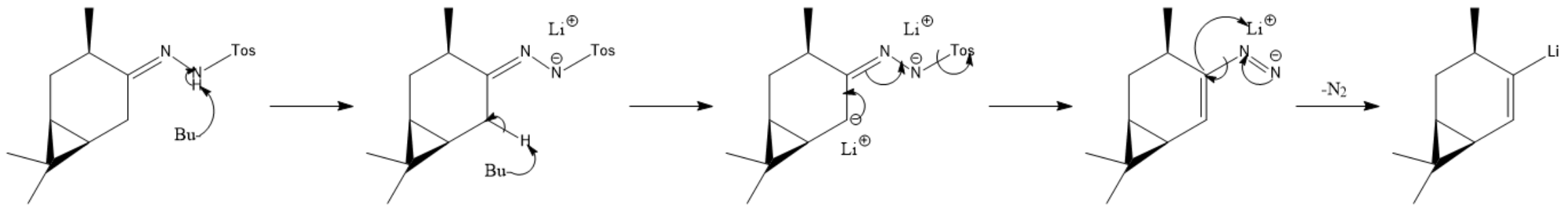
Chromic acid



Reacción de Shapiro

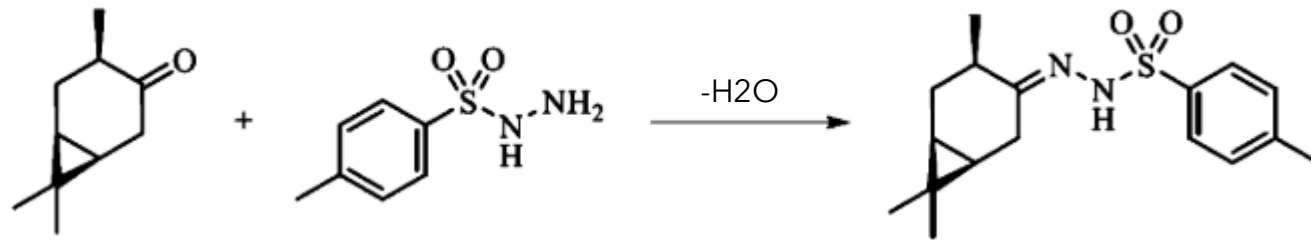
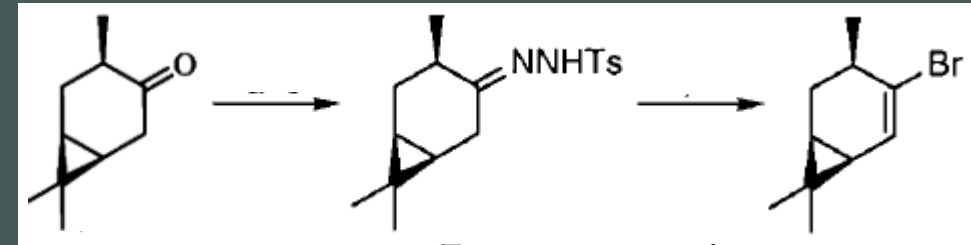


Paso 1: Formación de la tosilhidrazona
A partir del aldehído y la p-toluensulfonilhidrazida

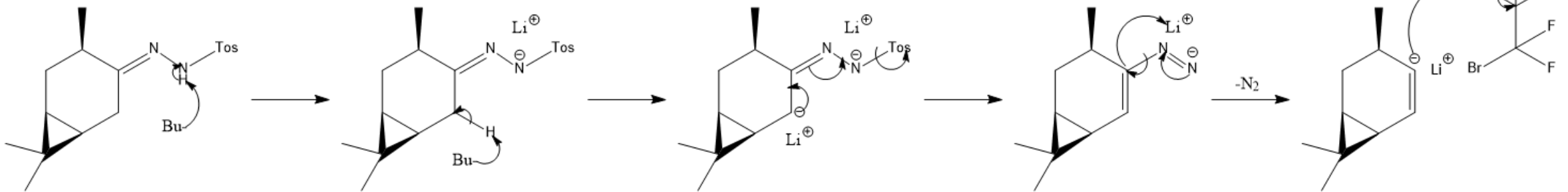


Paso 2: Formación del organolitiado

Reacción de Shapiro



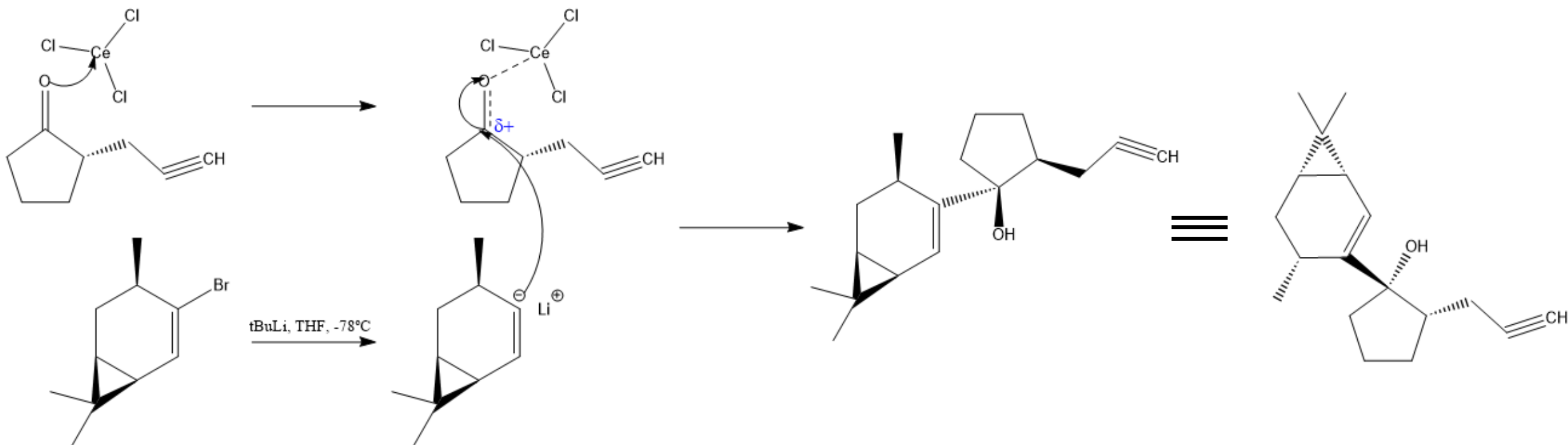
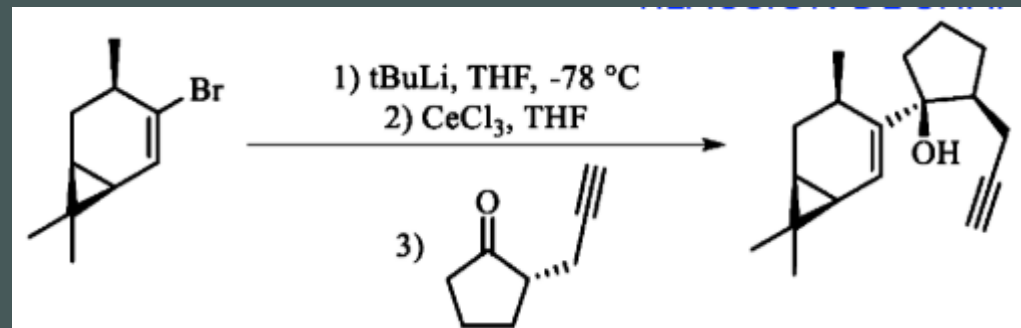
Paso 1: Formación de la tosilhidrazona
A partir del aldehído y la p-toluensulfonilhidrazida



Paso 2: Formación del organolitado

Paso 3: Bromación

Alquilación con Cerio



Extra

Tandem Anionic 5-Exo Dig Cyclization/ Claisen Rearrangement as an Efficient Route to Fused Polycyclic Ring Systems

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