

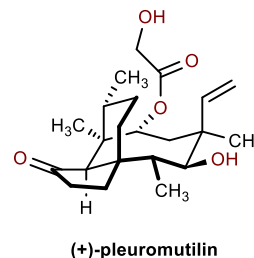
Background

- Pleuromutilins are a class of antibiotics that bind to the peptidyl transferase of bacterial ribosomes
- First isolated in 1951, structure determined in 1966
- C12 epimers accessed through semisynthesis show activity against Gram-negative bacteria

Other Syntheses:

Gibbons (1982), racemic, 29 steps LLS
Boeckmann (1989), racemic, 25 steps LLS

Proctor (2013), (+), 34 steps LLS
Reisman (2018), (+), 18 steps LLS



Clitopilus passeckerianus

Synthesis

