

# Total Synthesis of Auropusarin: Studies on the Atropisomeric Stability of Bis-Naphthoquinones

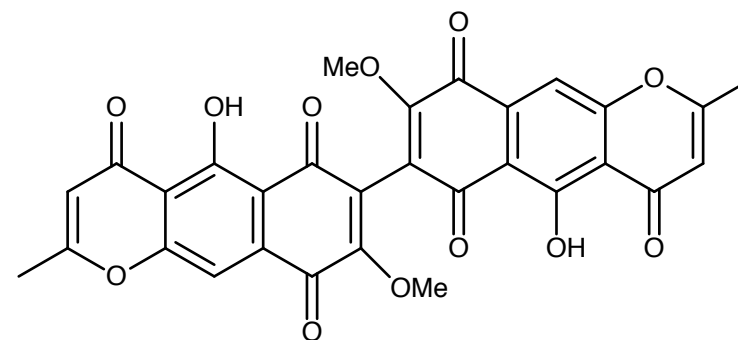
Qi, C.; Wang, W.; Reichl, K.D.; McNeely, J.; Porco, J.A., *Angew. Chem. Int. Ed.* **2018**, 57 (8), 2101 – 2104

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- Auropusarin belongs to a class of natural products known as naphthopyranones, and is synthesized by various fungi. The genus for which it is named, *Fusarium*, comprises many plant pathogens that are responsible for causing disease amongst grasses, wheats, and domesticated crops like carrots, asparagus, and potatoes.

- Auropusarin is a homodimeric pigment, which accounts for the diverse white, red, and yellow colors found in *Fusarium* fungi.



auropusarin (2)

- In this novel synthesis, auropusarin was produced in 11 steps with 9% overall yield.

# Retrosynthetic Analysis

