

Quercinol, an anti-inflammatory chromene from the wood-rotting fungus *Daedalea quercina* (Oak Mazegill).

Gebhardt P, Dornberger K, Gollmick FA, Gräfe U, Härtl A, Görls H, Schlegel B, Hertweck C (2007) Quercinol, an anti-inflammatory chromene from the wood-rotting fungus *Daedalea quercina* (Oak Mazegill). *Bioorg Med Chem Lett* 17(9), 2558-2560.

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Abstract

The fungus *Daedalea quercina* (oak mazegill) was examined for its capability of producing antioxidative and anti-inflammatory compounds. Bioactivity guided fractionation of the extract from a mycelial culture led to the isolation of quercinol, which was identified as (-)-(2S)-2-hydroxymethyl-2-methyl-6-hydroxychromene 1 by NMR and X-ray analyses. The cryptic hydroquinone 1 shows a broad anti-inflammatory activity against cyclooxygenase 2 (COX-2), xanthine oxidase (XO), and horseradish peroxidase (HRP) at micromolar concentrations.

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