







Diarylheptanoid, a constituent isolated from methanol extract of *Alpinia officinarum* attenuates TNF- α level in Freund's complete adjuvant-induced arthritis in rats

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Abstract

Ethnopharmacological relevance

Rheumatoid arthritis (RA) is a chronic inflammatory and destructive joint disease that affects the worldwide population. Alpinia officinarum Hance (Zingiberaceae), rhizomes are widely used ethnobotanically as an anti-inflammatory, analgesic, and antioxidant agent in traditional medicine.

Aim

To investigate the efficacy and possible mechanism of isolated phytoconstituent from the methanol extract of *A. officinarum* (MEAO) rhizomes against Freund's complete adjuvant (FCA)-induced arthritis in rats. Furthermore, molecular docking was performed to study the binding mode of this compound into the active site of TNF- α .



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