



Research Article

Anti-inflammatory activity of Mi LABS Joint Support supplement (MLJS-01) in RAW 264.7 cell lines

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Abstract

The aim of this study was to investigate the effect of Mi LABS Joint Support supplement (MLJS-01) on the production of TNF- α , an important inflammatory mediator, in RAW 264.7 cell lines. Isolated RAW 264.7 cells were activated with 1 μ g/ml lipopolysaccharide in the presence of MLJS-01 (25 and 50 μ g/ml) and Dexamethasone (200 μ M). Tumor necrosis factor- α secretion was quantified after 4h by L-929 bioassay. MLJS-01 showed dose dependent inhibition (31.19 \pm 3.40 and 24.75 \pm 4.82% at 50 and 25 μ g/ml, respectively) of LPS-induced TNF- α production in RAW 264.7 cell lines. The reduced production of TNF- α in RAW 264.7 cell lines may be involved in anti-inflammatory activity conveyed by MLJS-01.

Key words: Anti-inflammatory, Joint Support, TNF- α , Macrophages, Lipopolysaccharide

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