



Effects of Novel α -C Alkyl Analogues of Houttuynonate on the Functions of Macrophages

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SUMMARY. The effects of three novel α -C alkyl analogues of houttuynonate (HOU-C₈C_n, n = 1, 2, 4) on the functions of macrophages were investigated. Results indicated that HOU-C₈C_ns were able to enhance the generation of acid phosphatase, lysozyme and superoxide dismutase (SOD) and the phagocytosis of macrophages in a dose-dependent way. Meanwhile, obvious morphological changes of macrophages were observed after treatment with HOU-C₈C_ns. These evidences above suggested that HOU-C₈C_n would have the positive effects on activating macrophage. Furthermore, the effects of HOU-C₈C_ns were structure-related: as the carbon chain on alpha position of HOU-C₈C_n elongates, functions of these compounds weakens.

KEY WORDS: Activation, HOU-C₈C_n, Macrophage.

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