

題名:Menthol inhibits WEHI-3 leukemia cells in vitro and in vivo

作者:楊沂淵

Lu HF; Liu JY; Hsueh SC; Yang YY; Yang JS; Tan TW; Kok LF; Lu CC; Lan SH; Wu SY; et al.;

貢獻者:醫學檢驗暨生物技術學系

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摘要:(-)-Menthol ([1-alpha]-5-methyl-2-[1-methylethyl]-cyclohexanol), is a widely used flavoring ingredient in mouthwash, foods, toothpaste and cigarettes. The studies reported here revealed that (-)-menthol induced cytotoxicity against murine leukemia WEHI-3 cells in vitro in a dose-dependent manner. The effects of (-)-menthol on WEHI-3 cells in vivo (BALB/c mice) were also examined, and it was observed that the Mac-3 and CD11b markers were decreased, indicating inhibition of differentiation of the precursor of macrophage and granulocyte. The weights of liver and spleen samples from mice treated with (-)-menthol were found to be decreased compared to untreated animals.