

论文

二羟丙氧甲基鸟嘌呤抗单纯疱疹病毒 I 型的实验研究

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摘要:

二羟丙氧甲基鸟嘌呤(DHPG),在组织培养中对单纯疱疹病毒 I 型(HSV-1)KOS株抑制50%空斑形成的浓度(IC₅₀)为0.1μg/ml。DHPG与环核苷联合应用的抗HSV活性呈协同作用;DHPG分别与无环鸟苷、酞丁安合用有相加作用。0.1和0.05%DHPG溶液滴眼对家兔实验性浅层单纯疱疹病毒角膜炎有显著治疗作用,浓度降低至0.025和0.01%无明显疗效。对实质层型单疱角膜炎,0.1%DHPG溶液滴眼治疗有效。

关键词: 二羟丙氧甲基鸟嘌呤 单纯疱疹病毒 实验性单纯疱疹病毒角膜炎

EXPERIMENTAL STUDIES OF 9-(1, 3-DI HYDROXY-2- PROPOXYMETHYL)-GUANINE (DHPG) AGAINST HERPES SIMPLEX VIRUS

ZJ Chen; WG Liu and JZ Song

Abstract:

The antiherpes virus effects of 9-(1,3-dihydroxy-2-propoxymethyl) guanine (DHPG) were studied in cell culture and in experimental herpetic keratitis in rabbits. In plaque reduction assays in Vero cell, the 60% inhibitory concentration (IC₅₀) of DHPG was shown to be 0.1 μg/ml against HSV-1. Combination of DHPG and Cycloctidine (CC), produced a synergistic activity against kos strains of HSV-1. Whereas the combination of DHPG and Acyclovir (ACV) or TaiDing-An (TDA) resulted in an additive interaction against HSV-1. Topical application of 0.1% or 0.05.9/00 DHPG eyedrop was initiated 48h after virus inoculation, significant efficacy was obtained in rabbits with herpetic epithelial keratitis. But 0.025 and 0.01% DHPG eyedrop showed no effect. 0.1% DHPG has been shown to be effective in the topical treatment of herpetic stromal keratitis in the rabbits.

Keywords: Herpes simplex virus Herpetic keratitis 9-(1,3-Dihydroxy-2-propoxymethyl) guanine (DHPG)

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