

Catalog Number: CM11547

产品信息

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CM11547

CAS号:
124-76-5

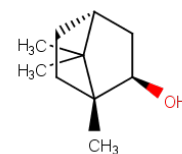
分子式:
C₁₀H₁₈O

主要靶点:
HSV

主要通路:
微生物学

分子量:
154.25

溶解度:
DMSO:9 mg/mL (58.35 mM)



体外活性

Isoborneol, a monoterpene and a component of several plant essential oils, showed dual viricidal activity against herpes simplex virus 1 (HSV-1). First, it inactivated HSV-1 by almost 4 log₁₀ values within 30 min of exposure, and second, isoborneol at a concentration of 0.06% completely inhibited viral replication, without affecting viral adsorption. Isoborneol did not exhibit significant cytotoxicity at concentrations ranging between 0.016% and 0.08% when tested against human and monkey cell lines. Isoborneol specifically inhibited glycosylation of viral polypeptides based on the following data: (1) the mature fully glycosylated forms of two viral glycoproteins gB and gD were not detected when the virus was replicated in the presence of isoborneol, (2) no major changes were observed in the glycosylation pattern of cellular polypeptides between untreated and isoborneol treated Vero cells, (3) isoborneol did not affect the glycosylation of gB produced from a copy of the gB gene resident in the cellular genome, and (4) other monoterpenes such as 1,8-cineole and borneol, a stereoisomer of isoborneol, did not inhibit HSV-1 glycosylation[1].

描述

Isoborneol is a monoterpene alcohol, with neuroprotective and antiviral activities

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years