For Research Use Only

Nerol

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Catalog Number: CM00395

产品信息

Catalog Number:
CM00395

CAS号:
106-25-2

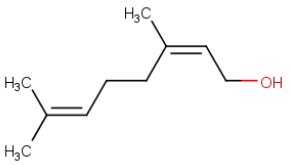
分子式:
$C_{10}H_{18}O$

主要靶点:
Reactive Oxygen Species|Antifungal|Mitochondrial Metabolism|Apoptosis|Endogenous Metabolite

主要通路:
免疫与炎症|代谢|NF-κB 信号通路|凋亡|代谢|代谢|微生物学

分子量:
154.25

溶解度:
DMSO:45 mg/mL (291.73 mM)



体内活性

Nerol主要通过阻断L型Ca2+通道减少Ca2+的流入，从而减轻了哺乳动物心脏中ouabain引发的心律失常的严重程度。

动物实验

Guinea pigs were sacrificed by decapitation and hearts were removed and isolated left atrium mounted vertically in an organ baths containing Tyrode's solution of the following composition (mM): NaCl 120, KCl 2.7, MgCl2 0.9, NaHCO3 11.9, CaCl2 1.37, glucose 5.5, NaH2PO4 0.4, pH 7.4. The atria preparations were subsequently connected to Grass FT-03 force displacement transducers to record changes in atrial contractile force. Each muscle was stretched to the length at which contractile force was maximal (1.0 gf). The atria were electrically paced at 1 Hz with pulses of 1.5 ms duration and stimulated by 70 V pulses. All preparations were allowed to equilibrate for 30 min until complete mechanical stabilization had been achieved. Nerol (97%) was freshly solubilized in 0.5% DMSO and cumulatively added to bath chambers. After each observation, muscles were washed several times and allowed to recover for 30 minutes until their mechanical function completely returned to control values. DMSO at this concentration did not show any significant effect on the variables measured (data not shown, n = 5).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.