Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Squalamine

Catalog No: tcsc4045

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
148717-90-2

Formula:
$C_{34}H_{65}N_3O_5S$

Pathway:
Anti-infection;Anti-infection

Target:
HBV;Bacterial

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
MSI-1256

Observed Molecular Weight:
627.96

Product Description

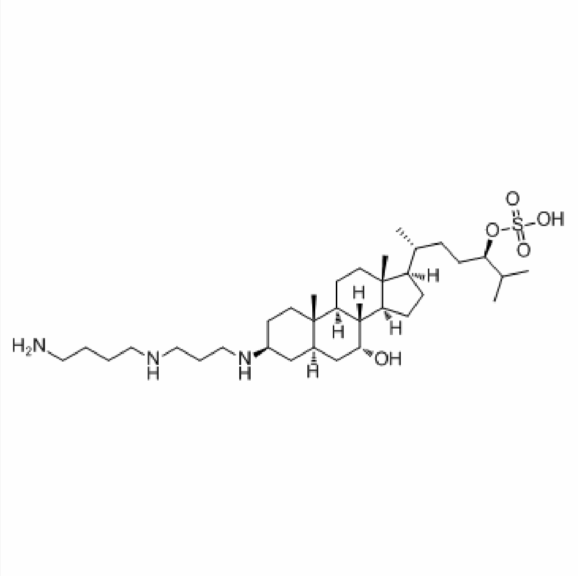
Squalamine(MSI-1256) is an aminosterol compound with potent broad spectrum antiviral activity.

IC50 value:

Target:

in vitro: squalamine can strongly displace membrane-bound cationic proteins such as Rac1, a ρ-GTPase recruited to the inner leaflet of the eukaryotic cytoplasmic membrane for the actin remodeling necessary for endocytosis. At concentrations between 20 and 60 µg/mL, squalamine has been shown to inhibit a broad array of growth factor-induced, actin-dependent responses in endothelial cells, including cell migration, cell division, and vascular tube formation in a 3D matrix [1]. Squalamine effectively inhibited HBV replication in human primary hepatocytes when added either during the initial exposure of virus to the cells or at 24 h after infection. A similar study was performed to evaluate the effect of squalamine on the replication of HDV. Squalamine was introduced at 20 µg/mL during HDV exposure, and the effects were measured at day 7 when total RNA was extracted and assayed for HDV RNA sequences [1].

in vivo: one time daily treatment with squalamine (15 or 30 mg/kg per d s.c.) was started beginning on day 1 or 2 after viral administration and continuing until day 8 or 9, respectively. Survival was monitored, and animals that remained alive by day 21 were considered cured [1].



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