Screening Libraries

Product Data Sheet

Squalamine lactate

Cat. No.: HY-16467 CAS No.: 320725-47-1 Molecular Formula: $C_{37}H_{71}N_3O_8S$ Molecular Weight: 718.04 Target: Bacterial Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 36.66 mg/mL (51.06 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	1.3927 mL	6.9634 mL	13.9268 mL	
	5 mM	0.2785 mL	1.3927 mL	2.7854 mL	
	10 mM	0.1393 mL	0.6963 mL	1.3927 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Squalamine lactate is an aminosterol compound discovered in the tissues of the dogfish shark, with antimicrobial activity, and used for the treatment of neovascular age-related macular degeneration.
In Vitro	Squalamine lactate has a more generalized effect on the cellular signaling cascade that is common to both VEGF and other growth factors ^[1] . Squalamine blocks the action of VEGF and integrin expression, thereby inhibiting angiogenesis, when bound to calmodulin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Squalamine is ineffective when administered intravitreally and therefore requires intravenous dosing. However, systemic dosing has yielded promising results in rats as well as humans ^[2] . MCF has not independently confirmed the accuracy of these methods. They are for reference only

REFERENCES

[1]. Hussain RM, et al. Emergion Sep;22(3):235-246.	ng vascular endothelial growi	th factor antagonists to treat nec	ovascular age-related macular degeneration. Expert Opin Emerg Drugs. 201	.7			
[2]. Emerson MV, et al. Current and emerging therapies for the treatment of age-related macular degeneration. Clin Ophthalmol. 2008 Jun;2(2):377-88.							
	Caution: Product has r	not been fully validated for n	nedical applications. For research use only.				
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