
Product Data Sheet

Product Name: Squalamine lactate (MSI-1256F)

Cat. No.: GC32161

Chemical Properties

Cas. No. 320725-47-1

SMILES NCCCCNCCCNC[C@H]1CC[C@@]2(C)[C@](C[C@@H](O)[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4([H])[C@H](C)CC[C@@H](OS(=O)(O)=O)C(C)C)([H])C1.C[C@@H](C(O)=O)O

Formula C₃₇H₇₁N₃O₈S M.Wt 718.04

Solubility DMSO : ≥ 36.66 mg/mL (51.06 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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.

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].

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].

[1]. Hussain RM, et al. Emerging vascular endothelial growth factor antagonists to treat neovascular age-related macular degeneration. Expert Opin Emerg Drugs. 2017

Caution: Product has not been fully validated for medical applications. For research use only.

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Sep;22(3):235-246. [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.

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