

Product Data Sheet

Product Name: Nevanimibe hydrochloride

Cat. No.: GC65200

Chemical Properties

Cas. No. 133825-81-7

Formula C₂₇H₄₀ClN₃O

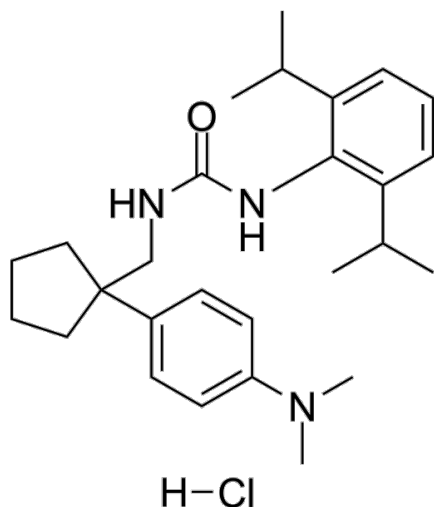
M.Wt 458.08

Solubility DMSO : 41.67 mg/mL (90.97 mM; Need ultrasonic)|Water : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

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

Nevanimibe hydrochloride (PD-132301 hydrochloride) is an orally active and selective acyl-coenzyme A:cholesterol O-acyltransferase 1 (ACAT1) inhibitor with an EC₅₀ of 9 nM. Nevanimibe hydrochloride inhibits ACAT2 with an EC₅₀ of 368 nM. Nevanimibe hydrochloride induces cell apoptosis and has the potential for adrenocortical cancer[1].

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

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Coincubation of Nevanimibe hydrochloride (PD-132301 hydrochloride; ATR101 hydrochloride; 3 nM-30 μ M) and Cholesterol markedly increases toxicity in a dose-dependent manner, where 3 nM Nevanimibe in the presence of 60 μ g/mL Cholesterol reduces survival by 60% after 24 hours. All doses of Nevanimibe (3 nM-30 μ M) induces cytotoxicity in the presence of Cholesterol, whereas treatment with Cholesterol in the absence of Nevanimibe has no effect on cell viability[1].

[1]. LaPensee CR, et al. ATR-101, a Selective and Potent Inhibitor of Acyl-CoA Acyltransferase 1, Induces Apoptosis in H295R Adrenocortical Cells and in the Adrenal Cortex of Dogs. *Endocrinology*. 2016 May;157(5):1775-88.

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