

Product Data Sheet

Product Name: QM31
Cat. No.: GC65474

Chemical Properties

Cas. No. 937735-00-7

Formula C₃₉H₃₈Cl₄N₄O₄

M.Wt 768.56

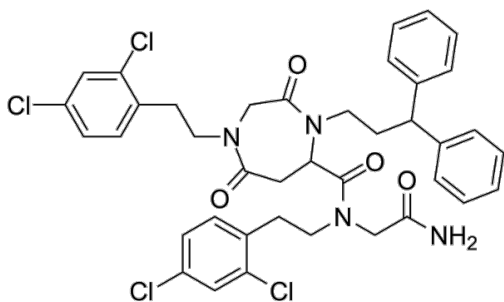
Solubility

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

QM31 (SVT016426), a cytoprotective agent, is a selective inhibitor of Apaf-1. QM31 inhibits the formation of the apoptosome (IC₅₀=7.9 μM), the caspase activation complex composed by Apaf-1, cytochrome c, dATP and caspase-9. QM31 exerts mitochondrioprotective functions and interferes with the intra-S-phase DNA damage checkpoint[1][2].

SVT016426 (0.5-2 μM) inhibits Apaf1-induced activation of caspase activity with an IC₅₀ of 5 μM in HeLa S100 cells[3].

[1]. Mondragón L, et al. A chemical inhibitor of Apaf-1 exerts mitochondrioprotective functions and

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

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interferes with the intra-S-phase DNA damage checkpoint. Apoptosis. 2009 Feb;14(2):182-90.
[2]. Orzáez M, et al. Apaf-1 inhibitors protect from unwanted cell death in in vivo models of kidney ischemia and chemotherapy induced ototoxicity. PLoS One. 2014 Oct 20;9(10):e110979.
[3]. Gortat A, et al. Apaf1 inhibition promotes cell recovery from apoptosis. Protein Cell. 2015 Nov;6(11):833-43.

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