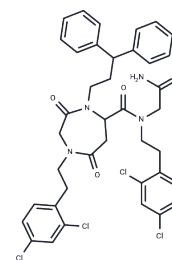


QM31

## Chemical Properties

CAS No. : 937735-00-7  
 Formula: C<sub>39</sub>H<sub>38</sub>Cl<sub>4</sub>N<sub>4</sub>O<sub>4</sub>  
 Molecular Weight: 768.56  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	QM31 is a selective Apaf-1 inhibitor (inhibits formation of the apoptosome with IC <sub>50</sub> of 7.9 μM).
Targets (IC <sub>50</sub> )	Others, Caspase
In vitro	SVT016426 inhibits Apaf1-induced activation of caspase activity (in HeLa S100 cells, with an IC <sub>50</sub> of 5 μM) [3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3011 mL	6.5057 mL	13.0113 mL
5 mM	0.2602 mL	1.3011 mL	2.6023 mL
10 mM	0.1301 mL	0.6506 mL	1.3011 mL
50 mM	0.026 mL	0.1301 mL	0.2602 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Mondragón L, et al. A chemical inhibitor of Apaf-1 exerts mitochondrioprotective functions and interferes with the intra-S-phase DNA damage checkpoint. *Apoptosis*. 2009 Feb;14(2):182-90.
- 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.
- Gortat A, et al. Apaf1 inhibition promotes cell recovery from apoptosis. *Protein Cell*. 2015 Nov;6(11):833-43.

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