

Product Name : QM31

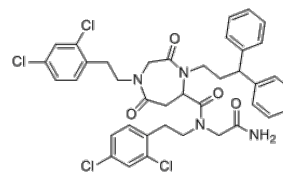
Synonyms : SVT016426; Apaf-1 inhibitor QM31

Cat No. : M16717

CAS Number : 937735-00-7

Molecular Formula : C₃₉H₃₈Cl₄N₄O₄

Formula Weight : 768.56



Chemical Name : N-(2-amino-2-oxoethyl)-N,1-bis(2,4-dichlorophenethyl)-4-(3,3-diphenylpropyl)-3,7-dioxo-1,4-diazepane-5-carboxamide

Description : QM31 (SVT016426, Apaf-1 inhibitor QM31) is a cytoprotective agent that inhibits the formation of the apoptosome (IC₅₀=7.9 μM in vitro), the caspase activation complex composed by Apaf-1, cytochrome c, dATP and caspase-9; suppresses the Apaf-1-dependent intra-S-phase DNA damage checkpoint; QM31 can interfere with the two known functions of Apaf-1, namely apoptosome assembly/activation and intra-S-phase cell cycle arrest.

Pathway : Apoptosis

Target : Apaf-1

Receptor : Apaf-1

Solubility : —

SMILES : C1C(N(C(=O)CN(C1=O)CCC2=C(C=C(C(=C2)Cl)Cl)CCC(C3=CC=CC=C3)C4=CC=CC=C4)C(=O)N(CCC5=C(C=C(C(=C5)Cl)Cl)CC(=O)N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Mondragón L, et al. Apoptosis. 2009 Feb;14(2):182-90. 2. Mondragón L, et al. J Med Chem. 2008 Feb 14;51(3):521-9. 3. Malet G, et al. Cell Death Differ. 2006 Sep;13(9):1523-32.