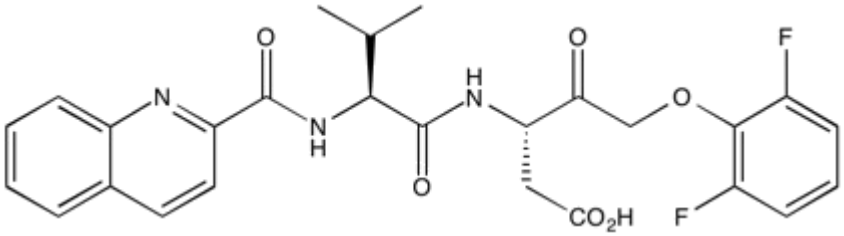
Catalog # 10-2940

Q-VD-OPh

CAS# 1135695-98-5

Quinolyl-valvl-aspartyl-[2,6-difluorophenoxy]methyl ketone

Lot # X106499



Q-VD-OPh is a potent and highly effective pan-caspase inhibitor with potent antiapoptotic activity which is not toxic to cells.[1] Displays protective effects on brain damage and bacterial infection in a murine MCAO stroke model.[2] Switches doxorubicin-induced apoptosis to an alternative default cell death mode marked by increased expression of senescence markers.[3] Blocks staurosporin-induced differentiation of embryonic stem cells to cardiomyocytes.[4] Trophoblasts treated with ceramide and Q-VD-OPh undergo necroptosis.[5]

1) Caserta et al. (2003), *Q-VD-OPh, a broad spectrum caspase inhibitor with potent antapoptotic properties*; Apoptosis, **8** 345

2) Braun *et al*. (2007), *Protection from brain damage and bacterial infection in murine stroke by the novel caspase-inhibitor Q-VD-OPH*; Exp. Neurol., **206** 183

3) Rebbaa *et al*. (2003), *Caspase inhibition switches doxorubicin-induced apoptosis to senescence*; Oncogene, **22** 2805

4) Bulatovic *et al*. (2015), *Sublethal caspase activation promotes generation of cardiomyocytes from embryonic stem cells*; PLoS One, **10** e0120176

5) Bailey et al. (2017), *Augmented trophoblast cell death in preeclampsia can proceed via ceramide-mediated necroptosis*; Cell Death Dis., **8** e2590

PHYSICAL DATA

Molecular Weight:	513.49
Molecular Formula:	$C_{26}H_{25}F_2N_3O_6$
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 15 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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