

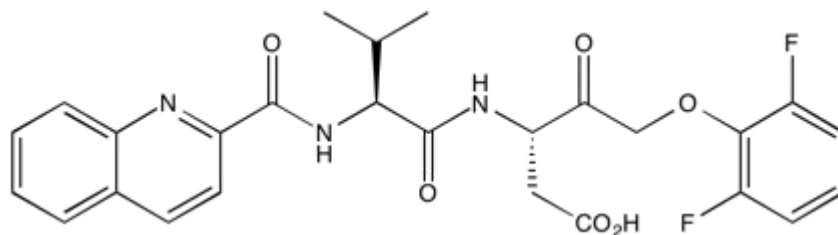
Catalog # 10-2940

Q-VD-OPh

CAS# 1135695-98-5

Quinolyl-valyl-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 antiapoptotic 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 ₂ N ₃ O 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.

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