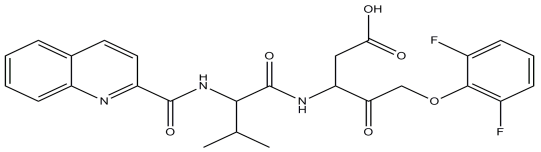
EZSolution™ Q-VD-OPh

ALTERNATE NAME: Q-Val-Asp-OPh; Quinolyl-Val-Asp-OPh

CATALOG #: 1173-1

AMOUNT: 1 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{26}H_{25}F_2N_3O_6$

MOLECULAR WEIGHT: 513.49

CAS NO.: 1135695-98-5

APPEARANCE: Liquid

FORMULATION: 10 mM solution in DMSO

PURITY: ≥95% by HPLC

STORAGE: Store at -20°C. Protect from air and light

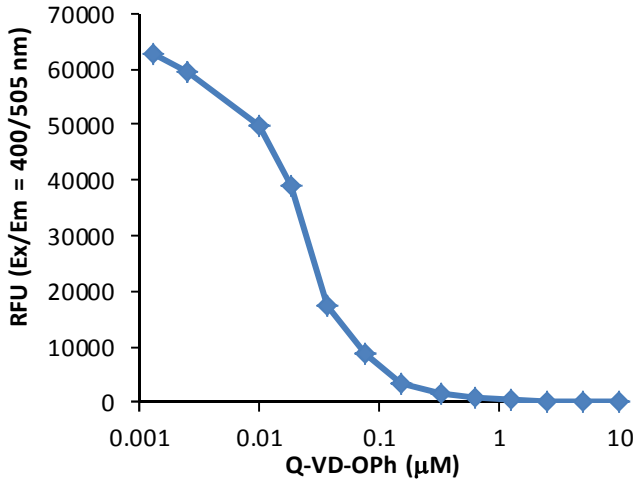
DESCRIPTION: A 10 mM (1 mg in 195 µl) solution of caspase inhibitor Q-VD-OPh (Cat. No. 1170-1) in DMSO.
A synthetic peptide that is potent, cell permeable, nontoxic and irreversibly inhibits caspase activity to blocks apoptosis. The new generation of caspase inhibitor is more stable in aqueous environment and exhibits several folds higher activity than the corresponding FMK caspase inhibitors. Q-VD-OPh is the inhibitor of choice for both *in vitro* and *in vivo* studies.
IC_{50} = 20-40 nM.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- Q-VD-OPh **(Cat. No. 1170-1, 5)**
- Q-VD-OPh, Negative Control **(Cat. No. 1171-1, 5)**
- Z-VAD(OMe)-FMK (**Cat. No. 1140-1,5)**
- Boc-D(OMe)-FMK (**Cat. No. 1160-1, 5)**



Inhibition of Caspase-3 activity by next generation caspase inhibitor, Q-VD-OPh: Different concentrations of inhibitor Q-VD-OPh were tested to check the inhibition of Caspase-3 activity. Active Caspase-3 was incubated with the inhibitor Q-VD-OPh for 7 min prior to addition of synthetic peptide substrate DEVD-AFC (AFC,7-amino-4-trifluoromethyl coumarin). Fluorescence was measured at Ex/Em = 400/505 nm.

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