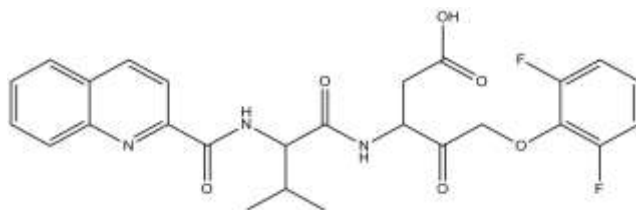


## Caspase-Family Inhibitor, Q-VD-OPh

CATALOG #:	1170-1	1 mg
	1170-3	3 mg
	1170-5	5 mg
	1170-50	50 mg

### STRUCTURE:



### APPEARANCE:

White to off-white solid

### STORAGE CONDITIONS:

Store at  $-20^{\circ}$  C.

### Solubility:

Soluble in DMSO (200 mg/ml)

### SHELF LIFE:

1 year under proper storage conditions

### MOLECULAR WEIGHT:

514

### CAS. No.:

1135695-98-5

### PURITY:

>95% by HPLC analysis

### DESCRIPTION:

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.

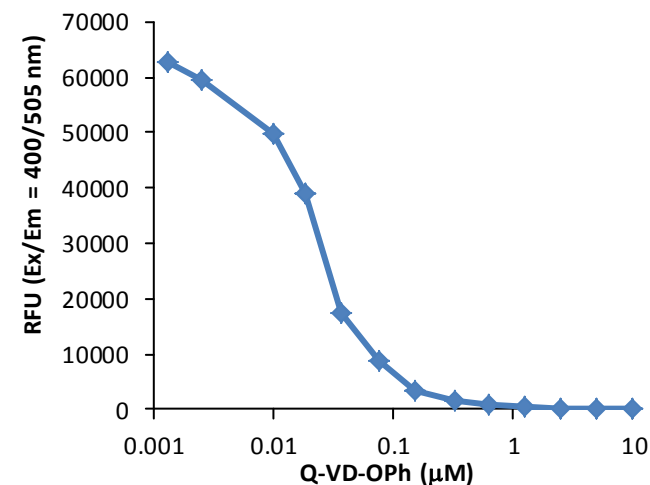
### RECOMMENDED USAGE:

We recommend using 1-10  $\mu$ M concentration for *in vitro* enzyme kinetics studies. For *in vivo* usage, quantity needs to be determined by researcher. 20 mg/Kg of body weight is a proper place to start.

**FOR RESEARCH PURPOSE ONLY! Not to be used in humans.**

### RELATED PRODUCTS:

- Q-VD-OPh (Cat. No. 1170-1, -5)
- EZSolution™ Q-VD-OPh (Cat. No. 1173-1)
- Q-VD-OPh, Negative Control (Cat. No. 1171-1, -5)
- EZSolution™ Q-VD-OPh, Negative Control (Cat. No. 1174-1)
- Z-VAD(OMe)-FMK (Cat. No. 1140-1, -5)
- Boc-D(OMe)-FMK (Cat. No. 1160-1, -5)
- Q-DE(OMe)VD(OMe)-OPh (Cat. No. 1175-1, -3, -5)
- EZSolution™ Q-DE(OMe)VD(OMe)-OPh (Cat. No. 1178-1)
- Q-IE(OMe)TD(OMe)-OPh (Cat. No. 1176-1, -3, -5)
- Q-LE(OMe)HD(OMe)-OPh (Cat. No. 1177-1, -3, -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.