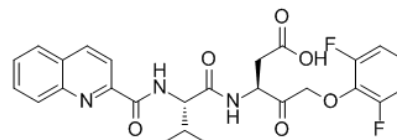


**Product Name** : Q-VD-Oph  
**Cat. No.** : PC-42968  
**CAS No.** : 1135695-98-5  
**Molecular Formula** : C<sub>26</sub>H<sub>25</sub>F<sub>2</sub>N<sub>3</sub>O<sub>6</sub>  
**Molecular Weight** : 513.49  
**Target** : Caspase  
**Solubility** : DMSO: ≥ 25 mg/mL



## Biological Activity

Q-VD-Oph is a potent **pan-caspase** inhibitor, inhibits human recombinant caspase-7 with IC<sub>50</sub> of 48 nM in cell-free assay, also inhibits caspase -1, 3, 8, 9, 10, and 12 with IC<sub>50</sub> of 25-400 nM.

Q-VD-Oph reduces doxorubicin-induced caspase-3 activation, increases expression of p21/WAF1 and senescence - associated -beta-galactosidase activity, but does not alter Akt activation.

Q-VD-Oph is significantly more effective in preventing apoptosis than the widely used inhibitors, ZVAD-fmk and Boc-D-fmk.

Q-VD-Oph prevents activated caspase-7 and caspase-cleaved fragments of tau in the TgCRND8 brain, as well as pathology associated with TgCRND8 mice.

## References

Caserta TM, et al. *Apoptosis*. 2003 Aug;8(4):345-52.

Rebbaa A, et al. *Oncogene*. 2003 May 8;22(18):2805-11.

Rohn TT, et al. *Int J Clin Exp Med*. 2009 Nov 5;2(4):300-8.

Renolleau S, et al. *J Neurochem*. 2007 Feb;100(4):1062-71.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com