



LKT Laboratories, Inc.

Q-VD-OPH

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Product Information

Product ID Q845138

CAS No. 1135695-98-5

Chemical Name

Synonym

Formula $C_{26}H_{25}F_2N_3O_6$

Formula Wt. 513.5

Melting Point

Purity $\geq 98\%$

Solubility

Store Temp -20°C

Ship Temp Ambient

Description Q-VD-OPH (QVD-OPh) is a broad-spectrum, cell-permeable caspase inhibitor based on a quinoline-Val-Asp(OMe)-CH₂-2,6-difluorophenoxymethyl ketone pharmacophore that irreversibly inhibits caspase-1, -3, -6, -7, -8, -9, and -10. Unlike earlier generation caspase inhibitors such as Z-VAD-FMK, Q-VD-OPH shows reduced cytotoxicity and improved cell permeability. It is widely used to block apoptosis in cell culture systems, to characterize caspase-dependent versus -independent death pathways, and as a negative control in cell death biology studies.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
Q845138	1 mg	\$125.00
Q845138	5 mg	\$375.00
Q845138	10 mg	\$675.00

- References**
1. Caserta TM, Smith AN, Gultice AD, et al. Q-VD-OPh, a broad spectrum caspase inhibitor with potent antiapoptotic properties. Apoptosis. 2003;8(4):345-52. PMID: 12815277.
 2. Slee EA, Zhu H, Chow SC, et al. Benzyloxycarbonyl-Val-Ala-Asp (OMe) fluoromethylketone (Z-VAD.FMK) inhibits apoptosis by blocking the processing of CPP32. Biochem J. 1996;315(Pt 1):21-4. PMID: 8670109.
 3. Green DR, Llamhi F. Cell death signaling. Cold Spring Harb Perspect Biol. 2015;7(12):a006080. PMID: 26261370.
 4. Poreba M, Strozyk A, Salvesen GS, et al. Caspase substrates and inhibitors. Cold Spring Harb Perspect Biol. 2013;5(8):a008680. PMID: 23913984.
 5. Elmore S. Apoptosis: a review of programmed cell death. Toxicol Pathol. 2007;35(4):495-516. PMID: 17562483.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.