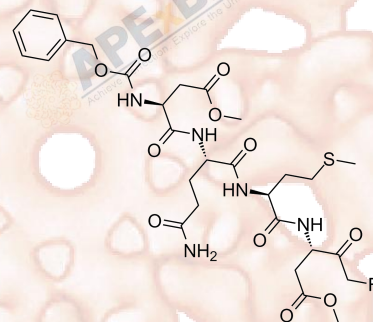


Product Data Sheet

Z-DQMD-FMK

Cat. No.:	A1921
CAS No.:	767287-99-0
Formula:	C29H40FN5O11S
M.Wt:	685.72
Synonyms:	Z-DQMD-FMK, Benzyloxycarbonyl-Asp(OMe)-Gln-Met- Asp(OMe)-fluoromethylketone
Target:	Caspase-3
Pathway:	Apoptosis/Caspase
Storage:	Store at -20° C



Solvent & Solubility

≥29.2 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		1 mM	1.4583 mL	7.2916 mL	14.5832 mL
		5 mM	0.2917 mL	1.4583 mL	2.9166 mL
		10 mM	0.1458 mL	0.7292 mL	1.4583 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Irreversible Caspase-3 inhibitor, cell-permeable

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	3T3-Swiss Albino cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 ° C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 ° C for several months.

	Reacting conditions:	25 μ M; 24 hrs
	Applications:	In zinc-deficient 3T3-Swiss Albino cells, Z-DQMD-FMK (25 μ M) prevented activation of caspase-3. Z-DQMD-FMK treatment did not restore cell number, but resulted in processing of full-length PKC- δ to a 56-kDa fragment.
In Vivo	Animal experiment	
	Animal models:	C57BL/6 mice
	Dosage form:	10 μ mol/kg, i.p, 7 days
	Applications:	Apoptosis of lung cells was decreased in mice treated with z-DQMD-FMK, and the fungal burden increased.
	Preparation method:	The irreversible caspase inhibitor z-DQMD-FMK was dissolved in DMSO and administered to mice i.p. (10 μ mol/kg). Mice were treated daily, beginning the day of infection, until the animals were sacrificed.
	Other notes:	The technical data provided above is for reference only.

Product Citations

See more customer validations on www.apexbt.com.

References

1. Susan S. CHOU*, Michael S. CLEGG, Alterations in protein kinase C activity and processing during zinc-deficiency-induced cell death, Biochem. J. (2004) 383, 63 – 71.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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