

Product Name: Z-VDVAD-FMK Revision Date: 01/10/2021

Product Data Sheet

Z-VDVAD-FMK

Cat. No.: A1922

210344-92-6 CAS No.: C32H46N5O11F Formula:

M.Wt: 695.73

Z-VDVAD-fluoromethylketone, Caspase-2 Synonyms:

Inhibitor

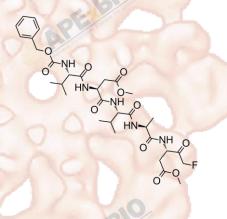
(fluoromethylketone), Z-Val-Asp(OMe)-Val-Ala

-Asp(OMe)-FMK

Apoptosis Target:

Caspase Pathway:

Storage: Store at -20°C



Solvent & Solubility

≥34.8 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	1 mM	1.4373 mL	7.1867 mL	14.3734 mL
	5 mM	0.2875 mL	1.4373 mL	2.8747 mL
	10 mM	0.1437 mL	0.7187 mL	1.4373 mL

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

Biological Activity

Biological Activity		APE BLOOM		
Shortsummary	Caspase-2 inhibitor			
IC ₅₀ & Target				
	Cell Viability Assay			
In Vitro	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 or 100 μM; 1 or 22 h
	Applications:	Jurkat T-lymphocytes pretreated with 25 μM Z-VDVAD-FMK for 1 h, or stably
		transfected with pro-caspase-2 antisense (Casp-2/AS) are refractory to
		cytochrome c release stimulated by etoposide. According to the MTT-assay,
	910	Jurkat cells treated with 100 μM Z-VDVAD-FMK for 22 h prevented
	OE sugar a	doxorubicin-induced nuclear apoptosis, but not cell death.
In Vivo	Animal experiment	
	Applications:	~~~

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. J. D. Robertson, M. Enoksson et al. Caspase-2 Acts Upstream of Mitochondria to Promote Cytochrome c Release during Etoposide-induced Apoptosis. The Journal of Biological Chemistry. 277, :29803–29809, 2002.

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[2]. Gamen et al (2000) Doxorubicin treatment activates a Z-VAD-sensitive caspase, which causes Dym loss, caspase-9 activity, and apoptosis in Jurkat cells. Exp.Cell Res. 258 223.

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 APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm 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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