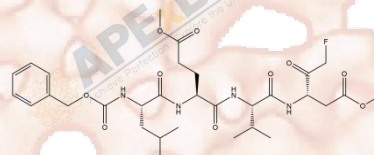


Product Data Sheet

Z-LEVD-FMK

Cat. No.:	A9046
CAS No.:	1135688-25-3
Formula:	C ₃₁ H ₄₅ FN ₄ O ₁₀
M.Wt:	652.72
Synonyms:	
Target:	Caspase-4
Pathway:	Apoptosis/Caspase
Storage:	Store at -20° C



Solvent & Solubility

≥43.6 mg/mL in DMSO; ≥10.55 mg/mL in EtOH with ultrasonic; insoluble in H₂O

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		1 mM	1.5321 mL	7.6603 mL	15.3205 mL
		5 mM	0.3064 mL	1.5321 mL	3.0641 mL
		10 mM	0.1532 mL	0.7660 mL	1.5321 mL

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

Biological Activity

Shortsummary	Irreversible Caspase-4 inhibitor	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	hRPE cells
	Preparation method:	hRPE cells were pretreated with caspase-4 inhibitor Z-LEVD-fmk (2 μM) for 30 min and then co-incubated with IL-1 β for additional 24 hr.
	Reacting conditions:	2 ng/mL, 30 min
	Applications:	Caspase-4 inhibitor Z-LEVD-fmk reduced tunicamycin-induced hRPE

apoptotic cell death by 59%.

In Vivo

Animal experiment

Applications:

Product Citations

See more customer validations on www.apexbt.com.

References

1. Bian ZM, Elner SG, Elner VM. Dual involvement of caspase-4 in inflammatory and ER stress-induced apoptotic responses in human retinal pigment epithelial cells. Invest Ophthalmol Vis Sci. 2009 Dec;50(12):6006-14. doi: 10.1167/iovs.09-3628. Epub 2009 Jul 30. PMID: 19643964; PMCID: PMC3208232.

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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