# Z-VEID-FMK

**Cat. No.:** HY-P1007

**CAS No.:** 210344-96-0

**Molecular Formula:** $C_{31}H_{45}FN_4O_{10}$

**Molecular Weight:** 652.71

**Target:** Caspase; Apoptosis

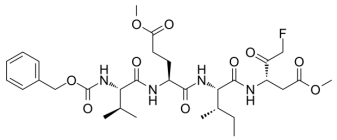
**Pathway:** Apoptosis

**Storage:** Stored under nitrogen, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



## BIOLOGICAL ACTIVITY

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|---|---|
| **Description** | Z-VEID-FMK (Z-VE(OMe)ID(OMe)-FMK) is a selective and irreversible caspase-6 peptide inhibitor. Z-VEID-FMK alleviates the S-(+)-ketamine-induced augmentation of caspase-6 activity, DNA fragmentation, and cell apoptosis[1][2]. |
| **In Vitro** | Z-VEID-FMK (Z-VE(OMe)ID(OMe)-FMK; pretreated 50 μM; for 1 h) decreases S-(+)-ketamine (200 μM; for another 16 h)-induced caspase-6 activity by 53% and apoptotic by 58%, alleviated S-(+)-ketamine-caused DNA fragmentation by 44% in HepG2 cells[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. S-T Lee, et al. Apoptotic insults to human HepG2 cells induced by S-(+)-ketamine occurs through activation of a Bax-mitochondria-caspase protease pathway. Br J Anaesth. 2009 Jan;102(1):80-9.

[2]. Philippe P Monnier, et al. Involvement of caspase-6 and caspase-8 in neuronal apoptosis and the regenerative failure of injured retinal ganglion cells. J Neurosci. 2011 Jul 20;31(29):10494-505.



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