

## Z-LEHD-fmk

## Chemical Properties

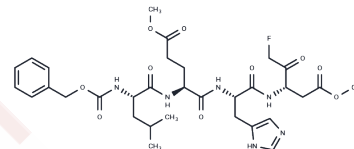
CAS No. : 210345-04-3

Formula: C32H43FN6O10

Molecular Weight: 690.72

Storage: Store at low temperature, Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Z-LEHD-FMK is a selective and potent caspase-9 inhibitor that protects against reperfusion injury and slows apoptosis. Z-LEHD-FMK exhibits antitumor and neuroprotective activity, increases the yield of in vitro-produced preimplantation embryos of [Bubalus bubalis], and alters the cellular stress response.
Targets(IC50)	Apoptosis,Caspase
In vitro	Pretreated for 30 minutes at a concentration of 20 $\mu$ M, Z-LEHD-FMK completely protects HCT116 and 293 cells from TRAIL-induced toxicity[1]. Additionally, at a concentration of 20 $\mu$ M for 6 hours, Z-LEHD-FMK protects normal human hepatocytes from TRAIL-induced apoptosis[1].
In vivo	In spinal cord injury (SCI) rats, Z-LEHD-FMK administered intravenously at a dose of 0.8 $\mu$ mol/kg for 7 days protects neurons, glia, myelin, axons, and intracellular organelles[3].

## Solubility Information

Solubility	DMSO: 90 mg/mL (130.3 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4478 mL	7.2388 mL	14.4776 mL
5 mM	0.2896 mL	1.4478 mL	2.8955 mL
10 mM	0.1448 mL	0.7239 mL	1.4478 mL
50 mM	0.029 mL	0.1448 mL	0.2896 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ozoren N, et, al. The caspase 9 inhibitor Z-LEHD-FMK protects human liver cells while permitting death of cancer cells exposed to tumor necrosis factor-related apoptosis-inducing ligand. *Cancer Res.* 2000 Nov 15; 60(22): 6259-65.

Mocanu MM, et, al. Caspase inhibition and limitation of myocardial infarct size: protection against lethal reperfusion injury. *Br J Pharmacol.* 2000 May; 130(2): 197-200.

Colak A, et, al. Neuroprotection and functional recovery after application of the caspase-9 inhibitor z-LEHD-fmk in a rat model of traumatic spinal cord injury. *J Neurosurg Spine.* 2005 Mar; 2(3): 327-34.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481