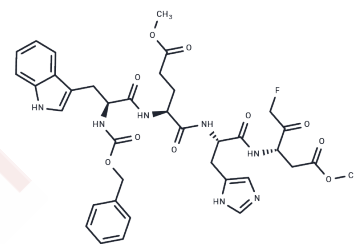


## Z-WEHD-FMK

## Chemical Properties

CAS No. :	210345-00-9
Formula:	C37H42FN7O10
Molecular Weight:	763.78
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Z-WEHD-FMK is a cell-permeable and irreversible inhibitor of caspase-1/5. It also shows a robust inhibitory effect on cathepsin B activity (IC50: 6 μM).
Targets(IC50)	Caspase,Cysteine Protease
In vitro	Z-WEHD-FMK (80 μM; 9 hours) nearly completely blocks <i>C. trachomatis</i> -induced cleavage of golgin-84 and increases GM130 expression in cells [1]. Administered 30 minutes before exposure to <i>E. piscicida</i> , Z-WEHD-FMK effectively inhibits 09091 <i>E. piscicida</i> -induced ZF4 cell cytotoxicity and pyroptotic morphology [2]. Z-WEHD-FMK (20 μM; 18-24 hours following exposure to Cr <sup>3+</sup> , Ni <sup>2+</sup> , and Co <sup>2+</sup> ) significantly reduces IL-1β release in bone marrow-derived macrophages by 76% to 86% with 200 to 400 ppm Cr <sup>3+</sup> , by 35% to 45% with 48 ppm or higher Ni <sup>2+</sup> , and below detection threshold with 6 ppm Co <sup>2+</sup> , as well as by 40% to 48% with 12 to 24 ppm Co <sup>2+</sup> [3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3093 mL	6.5464 mL	13.0928 mL
5 mM	0.2619 mL	1.3093 mL	2.6186 mL
10 mM	0.1309 mL	0.6546 mL	1.3093 mL
50 mM	0.0262 mL	0.1309 mL	0.2619 mL

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

Kamada S, et al. Caspase-4 and caspase-5, members of the ICE/CED-3 family of cysteine proteases, are CrmA-inhibitable proteases. *Cell Death Differ.* 1997 Aug;4(6):473-8.

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Ferko MA, et al. Effects of metal ions on caspase-1 activation and interleukin-1 $\beta$  release in murine bone marrow-derived macrophages. *PLoS One.* 2018 Aug 23;13(8):e0199936.

Newman ZL, et al. CA-074Me protection against anthrax lethal toxin. *Infect Immun.* 2009 Oct;77(10):4327-36.

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