

## Ac-YVAD-AFC

## Chemical Properties

CAS No. : 219137-85-6

Formula: C33H36F3N5O10

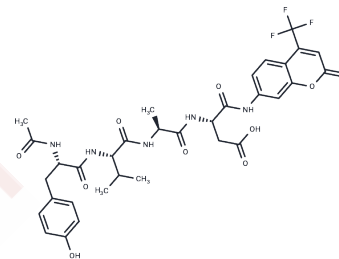
Molecular Weight: 719.66

Keep away from moisture, Keep away from direct sunlight

Storage:

Store at -20°C

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ac-YVAD-AFC is a fluorescent peptide substrate used to detect caspase-1. When cleaved, it releases the fluorescent molecule AFC, with an excitation wavelength of 400 nm and an emission wavelength of 505 nm.
Targets(IC50)	Caspase

## Solubility Information

Solubility	DMSO: 80 mg/mL (111.16 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (4.59 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.3895 mL	6.9477 mL	13.8955 mL
5 mM	0.2779 mL	1.3895 mL	2.7791 mL
10 mM	0.139 mL	0.6948 mL	1.3895 mL
50 mM	0.0278 mL	0.139 mL	0.2779 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

Furuoka M, et al. TNF- $\alpha$  Induces Caspase-1 Activation Independently of Simultaneously Induced NLRP3 in 3T3-L1 Cells. *J Cell Physiol.* 2016 Dec;231(12):2761-7.

Guo RF, et al. Protective effects of anti-C5a in sepsis-induced thymocyte apoptosis. *J Clin Invest.* 2000 Nov;106(10):1271-80.

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