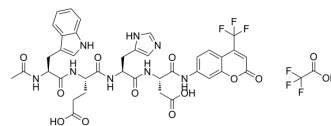


Ac-WEHD-AFC TFA

Cat. No.:	HY-P2617A
Molecular Formula:	C ₄₀ H ₃₈ F ₆ N ₈ O ₁₃
Molecular Weight:	952.77
Sequence Shortening:	Ac-WEHD-{AFC}
Target:	Caspase
Pathway:	Apoptosis
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (104.96 mM; Need ultrasonic)				
	H ₂ O : 50 mg/mL (52.48 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	1.0496 mL	5.2479 mL	10.4957 mL
		5 mM	0.2099 mL	1.0496 mL	2.0991 mL
10 mM		0.1050 mL	0.5248 mL	1.0496 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.62 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.62 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.5 mg/mL (2.62 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Ac-WEHD-AFC TFA is a fluorogenic caspase-1 substrate. Ac-WEHD-AFC TFA can measure caspase-1 fluorogenic activity and can be used for the research of tumor and inflammation ^[1] .
IC ₅₀ & Target	Caspase-1

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).

Caspase-1 Fluorogenic Activity Assay^[1]:

1. Incubate the cells according to your normal protocol.
2. Cells are transiently transfected with caspase-1 in combination with pcDNA3.1, Myc-clAP2, Myc-clAP1, or Myc-XIAP and collected 24 hr later.
3. Cells were lysed in CHEGG buffer before sonicating for 15 s at 60% amplitude (for cleavage assays).
4. Lysates were incubated with 10 mM of the fluorogenic caspase-1 substrate Ac-WEHD-AFC TFA.
5. The release of free AFC was monitored continuously for 1 hr (excitation 380 nm, emission 460 nm) in 1 min intervals and expressed as arbitrary fluorescence units per minute.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Katherine Labbé, et al. Cellular inhibitors of apoptosis proteins clAP1 and clAP2 are required for efficient caspase-1 activation by the inflammasome. *Immunity*. 2011 Dec 23;35(6):897-907.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA