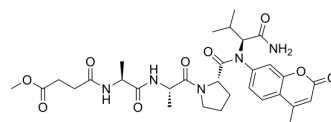


MeOSuc-AAPV-AMC

Cat. No.:	HY-136865
CAS No.:	72252-90-5
Molecular Formula:	C ₃₁ H ₄₁ N ₅ O ₉
Molecular Weight:	627.69
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Sealed storage, away from moisture and light 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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (199.14 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.5931 mL	7.9657 mL	15.9314 mL
5 mM	0.3186 mL	1.5931 mL	3.1863 mL
10 mM	0.1593 mL	0.7966 mL	1.5931 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MeOSuc-AAPV-AMC is a fluorogenic substrate for human leukocyte and porcine pancreatic elastase (K_m : 362 μ M, λ_{ex} =380 nm, λ_{em} =460 nm)^[1].

IC₅₀ & Target

Elastase^[1]

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)^[1].

1. Prepare The stock solutions of fluorogenic peptide substrates and stored at -40°C.
2. Dilute the stock solution 100-fold into reaction buffers to prepare 2× substrate buffers (400 μ M).
3. The enzymes are then incubated for 40 min.
4. The enzymatic activity is subsequently assayed by rapidly mixing 50 μ L of the substrate buffer with 50 μ L of the enzyme solution in a 96-well clear bottom plates.
5. Record the fluorescence change on a FLEXStation fluorescence plate reader.

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

REFERENCES

[1]. Dmitri Ivanov, et al. A serpin from the gut bacterium *Bifidobacterium longum* inhibits eukaryotic elastase-like serine proteases. *J Biol Chem*. 2006 Jun 23;281(25):17246-17252.

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

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