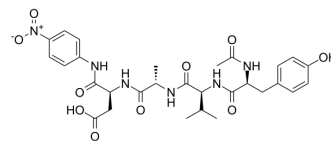


Ac-YVAD-pNA

Cat. No.:	HY-P2091
CAS No.:	149231-66-3
Molecular Formula:	C ₂₉ H ₃₆ N ₆ O ₁₀
Molecular Weight:	628.63
Sequence:	Ac-Tyr-Val-Ala-Asp-{pNA}
Sequence Shortening:	Ac-YVAD-{pNA}
Target:	Caspase
Pathway:	Apoptosis
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 : ≥ 250 mg/mL (397.69 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5908 mL	7.9538 mL	15.9076 mL
	5 mM	0.3182 mL	1.5908 mL	3.1815 mL
	10 mM	0.1591 mL	0.7954 mL	1.5908 mL

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

BIOLOGICAL ACTIVITY

Description

Ac-YVAD-pNA is a specific Caspase-1 substrate. Ac-YVAD-pNA can be used to detect Caspase-1 activity. Caspase-1 is a key mediator of inflammatory processes^{[1][2]}.

IC₅₀ & Target

Caspase-1

REFERENCES

[1]. Pereira NA, et al. Some commonly used caspase substrates and inhibitors lack the specificity required to monitor individual caspase activity. *Biochem Biophys Res Commun.* 2008 Dec 19;377(3):873-7.

[2]. Xin W, Wang Q, et al. A new mechanism of inhibition of IL-1 β secretion by celastrol through the NLRP3 inflammasome pathway. Eur J Pharmacol. 2017 Nov 5;814:240-247.

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