Ac-YVAD-pNA

Cat. No.: HY-P2091

CAS No.: 149231-66-3

Molecular Formula: $C_{29}H_{36}N_6O_{10}$

Molecular Weight: 628.63

Sequence: Ac-Tyr-Val-Ala-Asp-{pNA}

Sequence Shortening: Ac-YVAD-{pNA}

Target: Caspase

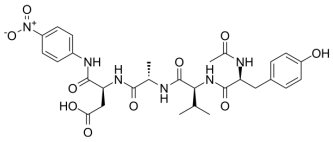
Pathway: Apoptosis

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.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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].

IC_{50} & 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-1β secretion by celastrol through the NLRP3 inflammasome pathway. Eur J Pharmacol. 2017 Nov 5;814:240-247.

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