Ac-DEVD-pNA

Cat. No.: HY-P1006

CAS No.: 189950-66-1

Molecular Formula: $C_{26}H_{34}N_6O_{13}$

Molecular Weight: 639

Sequence: N-Acetyl-Asp-Glu-Val-Asp-p-Nitroanilide

Sequence Shortening: Ac-DEVD-p-Nitroanilide

Target: Caspase

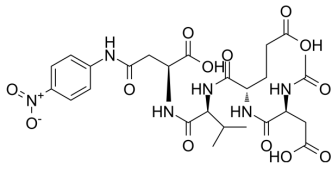
Pathway: Apoptosis

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 32.26 mg/mL (50.49 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5649 mL	7.8247 mL	15.6495 mL
	5 mM	0.3130 mL	1.5649 mL	3.1299 mL
	10 mM	0.1565 mL	0.7825 mL	1.5649 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: ≥ 2.75 mg/mL (4.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (4.30 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (4.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Ac-DEVD-pNA is a colorimetric substrate for caspase-3 (CPP32) and related cysteine proteases.

REFERENCES

[1]. Talanian RV, et al. Substrate specificities of caspase family proteases. J Biol Chem. 1997 Apr 11;272(15):9677-82.

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