Ac-DEVD-CMK TFA

MedChemExpress

Cat. No.:	НҮ-Р0034А	
Molecular Formula:	C ₂₃ H ₃₂ ClF ₃ N ₄ O ₁₃	
Molecular Weight:	664.97	но,∽о
Target:	Caspase; Apoptosis	
Pathway:	Apoptosis	
Storage:	Sealed storage, away from moisture and light, under nitrogen	0
	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

	H ₂ O : 50 mg/mL (75.1	H ₂ O : 50 mg/mL (75.19 mM; ultrasonic and warming and heat to 60°C)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.5038 mL	7.5191 mL	15.0383 mL		
		5 mM	0.3008 mL	1.5038 mL	3.0077 mL		
		10 mM	0.1504 mL	0.7519 mL	1.5038 mL		

BIOLOGICAL AC	ΓΙVITY			
Description	Ac-DEVD-CMK (Caspase-3 Inhibitor III) TFA is a selective and irreversible caspase-3 inhibitor. Ac-DEVD-CMK TFA significantly inhibits apoptosis induced by high levels of glucose or 3,20-dibenzoate (IDB; HY-137295). Ac-DEVD-CMK TFA can be used in a variety of experimental approaches to inhibit apoptosis ^{[1][2][3]} .			
In Vitro	Ac-DEVD-CMK TFA inhib pharyngeal squamous c			
	Concentration:	10 μM; with 10 mM citrate		

Product Data Sheet

	Incubation Time:	36 h		
	Result:	Inhibited citrate to induce p21 cleavage.		
In Vivo	Ac-DEVD-CMK TFA (Caspase-3 Inhibitor III; 25 mg/kg; IP; single dose; 3 hours post-APAP) significantly attenuates Acetaminophen (APAP; HY-66005)-induced liver injury (AILI) ^[5] . Ac-DEVD-CMK TFA (25 mg/kg; ip; single dose) significantly attenuates APAP-induced liver injury (AILI) in susceptible Sdc1-/- mice ^[6] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Sdc1 ^{-/-} mice induced by APAP ^[6]		
	Dosage:	25 mg/kg		
	Administration:	IP; single dose, 3 hours post-APAP		
	Result:	Inhibited GSK⊠3β or caspase⊠3 activity to mitigate liver damage.		

REFERENCES

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[2]. Nam EJ, et al. Syndecan-1 limits the progression of liver injury and promotes liver repair in acetaminophen-induced liver injury in mice. Hepatology. 2017 Nov;66(5):1601-1615.

[3]. Lu Cai, et al. Hyperglycemia-induced apoptosis in mouse myocardium: mitochondrial cytochrome C-mediated caspase-3 activation pathway. Diabetes. 2002 Jun;51(6):1938-48.

[4]. M M Mocanu, et al. Caspase inhibition and limitation of myocardial infarct size: protection against lethal reperfusion injury. Br J Pharmacol. 2000 May; 130(2):197-200.

[5]. M Blanco-Molina, et al. Ingenol esters induce apoptosis in Jurkat cells through an AP-1 and NF-kappaB independent pathway. Chem Biol. 2001 Aug;8(8):767-78.

[6]. Eon Jeong Nam, et al. Syndecan-1 limits the progression of liver injury and promotes liver repair in acetaminophen-induced liver injury in mice. Hepatology. 2017 Nov;66(5):1601-1615.

[7]. Eon Jeong Nam, et al. Syndecan-1 limits the progression of liver injury and promotes liver repair in acetaminophen-induced liver injury in mice. Hepatology. 2017 Nov;66(5):1601-1615.

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