

Ac-DEVD-CHO acetate

Chemical Properties

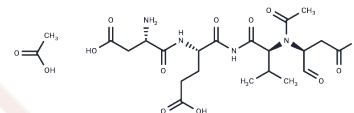
CAS No. :

Formula: C22H34N4O13

Molecular Weight: 562.52

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Caspase-3 Inhibitor I (N-acetyl-asp-glu-val-asp-al) is a specific inhibitor of Caspase-3.
Targets(IC50)	Caspase
In vitro	Pretreatment with the caspase-3 inhibitor Ac-DEVD-CHO or antioxidant NAC blocked SLNT-induced apoptosis[1]. The apoptosis of SP2/0 cells was blocked by a pan-caspase inhibitor Z-VAD-FMK and caspase-3 inhibitor Ac-DEVD-CHO[2].
In vivo	Compared with model group, in CI group, the concentrations of serum BUN were decreased significantly at all time points after operation and those of Cr were decreased significantly at 6 hours, then restored to those of the sham group at 12 hours and 24 hours; the concentrations of serum TNF- α , IL-6 were decreased and those of IL-10 elevated significantly at all time points[3].

Solubility Information

Solubility	H2O: 40 mg/mL (71.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7777 mL	8.8886 mL	17.7771 mL
5 mM	0.3555 mL	1.7777 mL	3.5554 mL
10 mM	0.1778 mL	0.8889 mL	1.7777 mL
50 mM	0.0356 mL	0.1778 mL	0.3555 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang J , Li W , Xiao H , et al. A polysaccharide from *Lentinus edodes* inhibits human colon cancer cell proliferation and suppresses tumor growth in athymic nude mice.[J]. *Oncotarget*, 2017, 8(1).

Wang Q, Guo S, Hu D, et al. Enhanced GSDME-mediated pyroptosis in Alzheimer's disease. *Neuroscience*. 2023

Junping Zhang, et al. Hypericin-mediated photodynamic therapy induces apoptosis of myeloma SP2/0 cells depended on caspase activity in vitro. *Cancer Cell Int*. 2015; 15: 58

Liu L X , Hu Z J , Li Y , et al. [The effect of caspase-3 inhibitor on the concentrations of serum inflammatory cytokines in sepsis related acute kidney injury induced by peritoneal cavity infection in mice].[J]. *Zhongguo wei zhong bing ji jiu yi xue = Chinese critical care medicine = Zhongguo weizhongbing jijiuyixue*, 2010, 22(12):736-739.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481