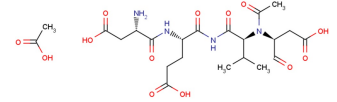


Data Sheet (Cat.No.TQ0146L)

Caspase-3 Inhibitor I

Chemical Properties

CAS No.:	TQ0146L
Formula:	C22H34N4O13
Molecular Weight:	562.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Caspase-3 Inhibitor I is a specific inhibitor of Caspase-3.
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 (79.61 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.778 mL	8.889 mL	17.777 mL
5 mM	0.356 mL	1.778 mL	3.555 mL
10 mM	0.178 mL	0.889 mL	1.778 mL
50 mM	0.036 mL	0.178 mL	0.356 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

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).
- 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.

Inhibitors · Natural Compounds · Compound Libraries

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