M826

Cat. No.: HY-155612

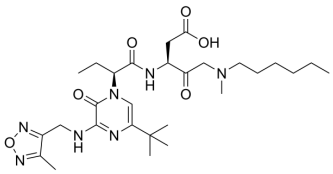
Molecular Formula: $C_{28}H_{45}N_7O_6$

Molecular Weight: 575.7

Target: Caspase

Pathway: Apoptosis

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (86.85 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7370 mL	8.6851 mL	17.3702 mL
	5 mM	0.3474 mL	1.7370 mL	3.4740 mL
	10 mM	0.1737 mL	0.8685 mL	1.7370 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: ≥ 2.5 mg/mL (4.34 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

M826 is a potent, selective and reversible non-peptide caspase-3 inhibitor with an IC_{50} value of 0.005 μM for enzymatic activity against caspase-3. M826 displays potent anti-apoptotic activity in animal models in vitro and in vivo. M826 can be used for nervous system diseases research[1].

In Vitro

M826 (different concentrations, 20 h) inhibits apoptosis in NT2 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

M826 (30 nmol for intracerebroventricular (ICV)-injected) blocks caspase-3 activation and cleavage of its substrates in neonatal H-I rat model[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Han BH, et al. Selective, reversible caspase-3 inhibitor is neuroprotective and reveals distinct pathways of cell death after neonatal hypoxic-ischemic brain injury. J Biol Chem. 2002 Aug 16;277(33):30128-36.

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