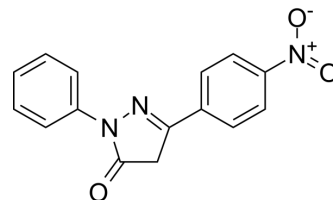


TCS PrP Inhibitor 13

Cat. No.:	HY-107662		
CAS No.:	34320-83-7		
Molecular Formula:	C ₁₅ H ₁₁ N ₃ O ₃		
Molecular Weight:	281.27		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (355.53 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.5553 mL	17.7765 mL	35.5530 mL
		5 mM	0.7111 mL	3.5553 mL	7.1106 mL
10 mM		0.3555 mL	1.7777 mL	3.5553 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 (8.89 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	TCS PrP Inhibitor 13, an antiprion agent, is a cellular prion protein (PrP ^C) inhibitor. TCS PrP Inhibitor 13, as a protease-resistant form of prion protein (PrP-res) accumulation inhibitor, shows an IC ₅₀ value of 3 nM in both ScN2a and F3 cell lines. TCS PrP Inhibitor 13 induces Schwannoma cells apoptosis ^[1] .
IC₅₀ & Target	IC ₅₀ : 3 nM (PrP ^C in ScN2a and F3 cells) ^[1]
In Vitro	TCS PrP Inhibitor 13 (0~500 μM; Schwannoma cells) significantly reduces levels of total ERK1/2, pAKT, total FAK, Cyclin D1, PrP ^C and significantly increases expression of cleaved caspase-3. TCS PrP Inhibitor 13 (Schwannoma cells) significantly reduces the number of proliferating, Ki67-positive cells and total cell number ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kimata A, et al. New series of antiprion compounds: pyrazolone derivatives have the potent activity of inhibiting protease-resistant prion protein accumulation [published correction appears in J Med Chem. 2008 Mar 13;51(5):1503]. J Med Chem. 2007;50(21):5053-5056.
- [2]. Provenzano L, et al. Cellular prion protein (PrPC) in the development of Merlin-deficient tumours. Oncogene. 2017;36(44):6132-6142.
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Caution: Product has not been fully validated for medical applications. For research use only.

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