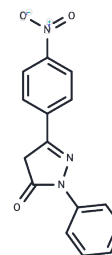


TCS PrP Inhibitor 13

Chemical Properties

CAS No. :	34320-83-7
Formula:	C ₁₅ H ₁₁ N ₃ O ₃
Molecular Weight:	281.27
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	TCS PrP Inhibitor 13 (5-(4-Nitrophenyl)-2-Phenyl-4H-Pyrazol-3-One) is an antiprion agent inhibiting protease-resistant prion protein (PrP-res) accumulation.
Targets(IC50)	Apoptosis,Others
In vitro	In Schwannoma cells, administration of 0-500 μM TCS PrP Inhibitor 13 reduces levels of total ERK1/2, pAKT, total FAK, Cyclin D1, PrPC and increases expression of cleaved caspase-3 significantly. TCS PrP Inhibitor 13 also significantly reduces the number of proliferating, Ki67-positive cells and total cell number in Schwannoma cells[2].

Solubility Information

Solubility	DMSO: 88 mg/mL (312.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.73 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5553 mL	17.7765 mL	35.553 mL
5 mM	0.7111 mL	3.5553 mL	7.1106 mL
10 mM	0.3555 mL	1.7777 mL	3.5553 mL
50 mM	0.0711 mL	0.3555 mL	0.7111 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

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.

Provenzano L, et al. Cellular prion protein (PrPC) in the development of Merlin-deficient tumours. Oncogene. 2017; 36(44):6132-6142.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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