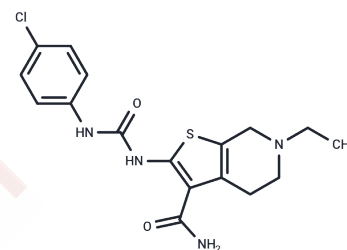


PROTO-1

Chemical Properties

CAS No. :	312951-85-2
Formula:	C17H19ClN4O2S
Molecular Weight:	378.88
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	PROTO-1 displays obviously protection of hair cells, with HC50(concentration that would produce 50% hair cell survival) of 1 μ M-10 μ M (1 μ M \leq HC50 \leq 10 μ M).
Targets(IC50)	Others
In vitro	PROTO-1 shows significant protection of hair cells over a broad range of neomycin concentrations, from 25 μ M to 400 μ M. Pretreatment with PROTO-1(1 and 10 μ M) causes significant protection of hair cells exposed to 200 μ M neomycin compared to neomycin alone. PROTO-1 protection against neomycin is tested at 4 mM neomycin and showed significant striolar [2]

Solubility Information

Solubility	DMSO: 125 mg/mL (329.92 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 (8.71 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	2.6394 mL	13.1968 mL	26.3936 mL
5 mM	0.5279 mL	2.6394 mL	5.2787 mL
10 mM	0.2639 mL	1.3197 mL	2.6394 mL
50 mM	0.0528 mL	0.2639 mL	0.5279 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

Rubel, et al. COMPOUNDS AND METHODS FOR PREVENTING, TREATING AND/OR PROTECTING AGAINST SENSORY HAIR CELL DEATH

Owens KN, et al. Identification of genetic and chemical modulators of zebrafish mechanosensory hair cell death. PLoS Genet. 2008 Feb 29;4(2):e1000020.

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