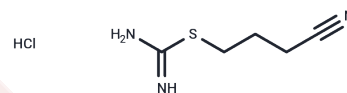


## Kevetrin hydrochloride

## Chemical Properties

CAS No. :	66592-89-0
Formula:	C <sub>5</sub> H <sub>10</sub> ClN <sub>3</sub> S
Molecular Weight:	179.67
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	Kevetrin hydrochloride (4-Isothioureydobutyronitrile hydrochloride) is a small molecule and activator of the tumor suppressor protein p53, with potential antineoplastic activity.
Targets(IC50)	Apoptosis,Mdm2,p53,MDM-2/p53

## Solubility Information

Solubility	DMSO: 50 mg/mL (278.29 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: 2 mg/mL (11.13 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	5.5658 mL	27.8288 mL	55.6576 mL
5 mM	1.1132 mL	5.5658 mL	11.1315 mL
10 mM	0.5566 mL	2.7829 mL	5.5658 mL
50 mM	0.1113 mL	0.5566 mL	1.1132 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

- Han D., Smalley K. (2015) Targeting the Cell Cycle and p53 in Combination with BRAF-Directed Therapy. In: Sullivan R. (eds) BRAF Targets in Melanoma. Cancer Drug Discovery and Development, vol 82. Springer, New York, NY
- Han R, Liang L, Qin T, et al. Encephalomyocarditis Virus 2A Protein Inhibited Apoptosis by Interaction with Annexin A2 through JNK/c-Jun Pathway. Viruses. 2022, 14(2): 359.
- Li J, Xiao S, Shi F, et al. Arsenic trioxide extends survival of Li-Fraumeni syndrome mimicking mouse. Cell Death & Disease. 2023, 14(11): 783.

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