

Nrf2-IN-3

Chemical Properties

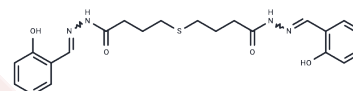
CAS No. : 6325-13-9

Formula: C₂₂H₂₆N₄O₄S

Molecular Weight: 442.53

Storage: Store at low temperature, Keep away from moisture
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	Nrf2-IN-3 is a mKEAP1-selective NRF2 inhibitor that selectively binds KEAP1 mutants and restores their NRF2 inhibitory function by repairing the disrupted KEAP1/NRF2 interaction, and selectively sensitizes cisplatin in xenografts of mouse mKEAP1 cancer cells.
Targets(IC50)	Nrf2,ROS
In vitro	Nrf2-IN-3 is a small-molecule NRF2 inhibitor that selectively binds KEAP1 mutants and restores their NRF2-inhibitory function by repairing the disrupted KEAP1/NRF2 interactions. Nrf2-IN-3 substantially sensitizes KEAP1-mutated tumor cells to cisplatin and gefitinib, but does not do so for wild-type KEAP1 cells, and sensitizes KEAP1 G333C-mutated xenograft to cisplatin. [1]

Solubility Information

Solubility	DMSO: 75 mg/mL (169.48 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: 7.5 mg/mL (16.95 mM), Solution. 10% DMSO+90% Saline: < 7.5 mg/mL (16.95 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.2597 mL	11.2987 mL	22.5973 mL
5 mM	0.4519 mL	2.2597 mL	4.5195 mL
10 mM	0.226 mL	1.1299 mL	2.2597 mL
50 mM	0.0452 mL	0.226 mL	0.4519 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

Aboukassim T, et al. A NRF2 inhibitor selectively sensitizes KEAP1 mutant tumor cells to cisplatin and gefitinib by restoring NRF2-inhibitory function of KEAP1 mutants. Cell Rep. 2023 Sep 26;42(9):113104.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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