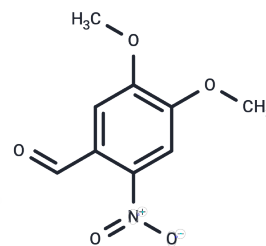


## DMNB

## Chemical Properties

CAS No. :	20357-25-9
Formula:	C <sub>9</sub> H <sub>9</sub> NO <sub>5</sub>
Molecular Weight:	211.17
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	DMNB (6-Nitroveratraldehyde) is DNA-dependent protein kinase (DNA-PK) inhibitor with IC <sub>50</sub> of 15 μM, an enzyme involved in the non-homologous end-joining (NHEJ) pathway of double-stranded DNA break (DSB) repair in human cells.
Targets(IC <sub>50</sub> )	Others,DNA-PK

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (106.55 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 (9.47 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	4.7355 mL	23.6776 mL	47.3552 mL
5 mM	0.9471 mL	4.7355 mL	9.471 mL
10 mM	0.4736 mL	2.3678 mL	4.7355 mL
50 mM	0.0947 mL	0.4736 mL	0.9471 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

Stephen D , Peter K . Vanillins--a novel family of DNA-PK inhibitors.[J]. Nuclc Acids Research, 2003(19):5501-5512.

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