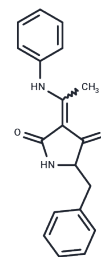


TN-16

## Chemical Properties

CAS No. : 33016-12-5  
 Formula: C<sub>19</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 306.36  
 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	TN-16 is a microtubule polymerization inhibitor (IC <sub>50</sub> :0.4-1.7 μM)
Targets(IC <sub>50</sub> )	Microtubule Associated
In vitro	TN-16 inhibits alkylation of tubulin. TN-16 induces metaphase arrest in renal cell carcinoma cells[1]. TN-16 can be used in combination with other inhibitors to enhance the efficiency of human artificial chromosome transfer to recipient cells[2]

## Solubility Information

Solubility	DMSO: 9 mg/mL (29.38 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2641 mL	16.3207 mL	32.6413 mL
5 mM	0.6528 mL	3.2641 mL	6.5283 mL
10 mM	0.3264 mL	1.6321 mL	3.2641 mL
50 mM	0.0653 mL	0.3264 mL	0.6528 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

Nakamura M , Kanda S , Kawamura M , et al. Effects of low concentration of vinblastine on the anchorage-independent growth and in vitro invasion of human renal carcinoma cell lines[J]. Cancer letters, 1993, 69(2):85-91.

Liskovych M , Lee N C , Larionov V , et al. Moving toward a higher efficiency of microcell-mediated chromosome transfer[J]. Molecular Therapy Methods & Clinical Development, 2016, 3(C):16043.

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