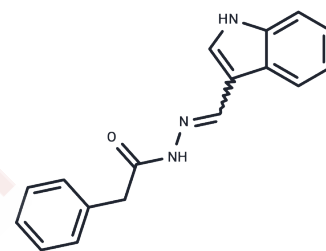


## Antiproliferative agent-16

## Chemical Properties

CAS No. : 15641-17-5  
 Formula: C<sub>17</sub>H<sub>15</sub>N<sub>3</sub>O  
 Molecular Weight: 277.32  
 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	Antiproliferative agent-16 (Antiproliferative agent-16) is an indolyl hydrazide-hydrazone compound with anticancer activity. Antiproliferative agent-16 exhibits specificity toward breast cancer cells (IC <sub>50</sub> of 6.94 μM for MCF-7 cells).
Targets(IC <sub>50</sub> )	Others
In vitro	Antiproliferative agent-16 (compound 18f) demonstrated cytotoxicity to DU145, LNCaP, MDA-MB231, MCF7, and PaCa2 cancer cells, with IC <sub>50</sub> values of 115.1 μM, 51.63 μM, 300.8 μM, 6.94 μM, and 91.18 μM, respectively [1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (180.3 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 (7.21 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

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	1mg	5mg	10mg
1 mM	3.6059 mL	18.0297 mL	36.0594 mL
5 mM	0.7212 mL	3.6059 mL	7.2119 mL
10 mM	0.3606 mL	1.803 mL	3.6059 mL
50 mM	0.0721 mL	0.3606 mL	0.7212 mL

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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

Swapna Sundaree, et al. Synthesis and anticancer activity study of indolyl hydrazide-hydrazones. Med Chem Res 25, 941-950 (2016).

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