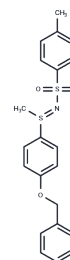


## TPh A

## Chemical Properties

CAS No. :	21306-65-0
Formula:	C <sub>21</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> S <sub>2</sub>
Molecular Weight:	399.53
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	TPh A (Triphenyl Compound A) is an inhibitor of the nuclear protein pirin (K <sub>i</sub> : 0.6 μM), a protein that can be used as a bioprobe to regulate pirin-related functions.
Targets(IC50)	Others
In vitro	In MCF7, MDA-MB231, HeLa, DU145, HepG2, A549, HT1080, WM266-4, and SK-MEL-28 cells, TPh A (0-100 μM; 48 hours) did not exhibit potent cytotoxic activity against various human cancer cell lines[1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (250.29 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: 4 mg/mL (10.01 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	2.5029 mL	12.5147 mL	25.0294 mL
5 mM	0.5006 mL	2.5029 mL	5.0059 mL
10 mM	0.2503 mL	1.2515 mL	2.5029 mL
50 mM	0.0501 mL	0.2503 mL	0.5006 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

Isao Miyazaki, et al. A Small-Molecule Inhibitor Shows That Pirin Regulates Migration of Melanoma Cells. Nat Chem Biol. 2010 Sep;6(9):667-73.

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