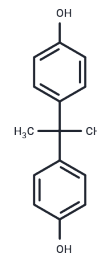


## Bisphenol A

## Chemical Properties

CAS No. :	80-05-7
Formula:	C15H16O2
Molecular Weight:	228.29
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	Bisphenol A is an endogenous metabolic compound of phenols and is widely used in the production of epoxy resins and polycarbonate plastics. It is reproductive, developmental and systemic toxicant and is often classified as an endocrine disruptor. It has been linked to many diseases, including respiratory disease, cardiovascular disease, diabetes, kidney disease, obesity and reproductive disorders.
Targets(IC50)	Apoptosis,Akt,Endogenous Metabolite,p38 MAPK,ROS
In vivo	Oxidative metabolites of bisphenols have endocrine activities in humans.

## Solubility Information

Solubility	DMSO: 247.5 mg/mL (1084.15 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 (8.76 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	4.3804 mL	21.902 mL	43.8039 mL
5 mM	0.8761 mL	4.3804 mL	8.7608 mL
10 mM	0.438 mL	2.1902 mL	4.3804 mL
50 mM	0.0876 mL	0.438 mL	0.8761 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

- Gramecskledar D , Peterlin Ma?? L . Bisphenol A and its analogs: Do their metabolites have endocrine activity?[]]. Environmental Toxicology and Pharmacology, 2016:S1382668916302447.
- Cao Y, Xu J, Liu J, et al.Bisphenol A exposure decreases sperm production and male fertility through inhibition PCBP2 expression.Environmental Science and Pollution Research.2023: 1-15.

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