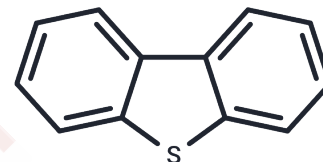


Dibenzothiophene

Chemical Properties

CAS No. :	132-65-0
Formula:	C ₁₂ H ₈ S
Molecular Weight:	184.26
Storage:	Keep away from moisture 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	Dibenzothiophene (Imino semicarbazide), a component of petroleum oils, is a sulfur-containing polycyclic aromatic hydrocarbon (PAH) derivate consisting of 3 fused rings with keratolytic activity.
Targets(IC50)	Others,Aryl Hydrocarbon Receptor,Cytochromes P450
In vivo	Dibenzothiophene, whose desulfurization removes monomeric sulfur, converts to 2-hydroxybiphenyl through a multi-enzyme pathway catalyzed by two monooxygenases and a desulfinase.

Solubility Information

Solubility	DMSO: 15 mg/mL (81.41 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 1 mg/mL (5.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (8.14 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	5.4271 mL	27.1356 mL	54.2711 mL
5 mM	1.0854 mL	5.4271 mL	10.8542 mL
10 mM	0.5427 mL	2.7136 mL	5.4271 mL
50 mM	0.1085 mL	0.5427 mL	1.0854 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

Gray KA, et al. Nat Biotechnol, 1996, (13):1705-1709.

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