

Dibenzofuran

Chemical Properties

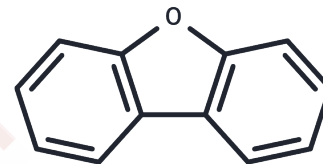
CAS No. : 132-64-9

Formula: C₁₂H₈O

Molecular Weight: 168.19

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	Dibenzofuran possesses multiple biological activities, including inhibition of the aryl hydrocarbon receptor and bovine viral diarrhoea virus.
Targets(IC50)	Antiviral

Solubility Information

Solubility	DMSO: 1 mg/mL (5.95 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	5.9457 mL	29.7283 mL	59.4566 mL
5 mM	1.1891 mL	5.9457 mL	11.8913 mL
10 mM	0.5946 mL	2.9728 mL	5.9457 mL
50 mM	0.1189 mL	0.5946 mL	1.1891 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

- Gao Y,et,al. Novel dibenzofuran and biphenyl phytoalexins from Sorbus pohuashanensis suspension cell and their antimicrobial activities. *Fitoterapia*. 2021 Jul;152:104914.
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- He L,et,al. Sustainable remediation of dibenzofuran-contaminated soil by low-temperature thermal desorption: Robust decontamination and carbon neutralization. *Chemosphere*. 2022 Sep;302:134810.
- Feuya Tchouya GR, Foundikou H, Mbiantcha M, Kezetas JJB, Bongui JB, Tchouankeu JC, Lebibi J, Dethe DH. A new dibenzofuran derivative from the stem bark of *Scyphocephalum ochocoa* with anti-inflammatory and cytotoxic activities. *Nat Prod Res*. 2022 Mar;36(6):1503-1514.

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