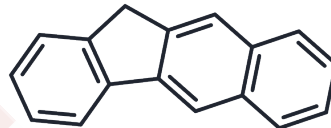


2,3-Benzofluorene

Chemical Properties

CAS No. :	243-17-4
Formula:	C17H12
Molecular Weight:	216.28
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	2,3-Benzofluorene (Benzo[b]fluorene) is a useful life science reagent for biochemical experiments and organic synthesis.
Targets(IC50)	Others
In vivo	In Sprague Dawley rats, oral administration of 2,3-Benzofluorene for 5 consecutive days (0-1000mg/kg) caused dose-dependent effects. In males, increased TSH and decreased thyroxine were observed (lowest BMD: 11.8mg/kg), while in females, increased liver weight and cholesterol were noted (lowest BMD: 1.08mg/kg). Transcriptomic analysis revealed significant changes in liver and kidney gene expression, with the most sensitive gene showing a BMD as low as 0.96mg/kg, indicating strong in vivo activity with higher sensitivity in female rats[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6236 mL	23.1182 mL	46.2364 mL
5 mM	0.9247 mL	4.6236 mL	9.2473 mL
10 mM	0.4624 mL	2.3118 mL	4.6236 mL
50 mM	0.0925 mL	0.4624 mL	0.9247 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

Auerbach SS, et al. NIEHS Report on the In Vivo Repeat Dose Biological Potency Study of 2,3-Benzofluorene (CASRN 243-17-4) in Sprague Dawley (Hsd:Sprague Dawley® SD®) Rats (Gavage Studies): NIEHS Report 09 [Internet]. Research Triangle Park (NC): National Institute of Environmental Health Sciences; 2023 Mar. PMID: 37018437.

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