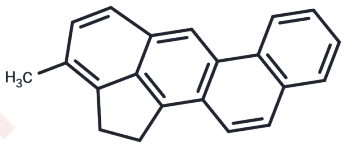
Data Sheet (Cat.No.T80664)

TargetMol

3-Methylcholanthrene

Chemical Properties



CAS No. : 56-49-5

Formula: C21H16

Molecular Weight: 268.35

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	3-Methylcholanthrene accumulates in prostatic tissue as a metabolic byproduct of cholesterol degradation and has been implicated in the pathogenesis of prostate cancer, highlighting its importance as a model carcinogen in toxicological and oncological research.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7265 mL	18.6324 mL	37.2648 mL
5 mM	0.7453 mL	3.7265 mL	7.453 mL
10 mM	0.3726 mL	1.8632 mL	3.7265 mL
50 mM	0.0745 mL	0.3726 mL	0.7453 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

Zhang M, et al. Inhibitory Effects of 3-Methylcholanthrene Exposure on Porcine Oocyte Maturation. Int J Mol Sci. 2023 Mar 14;24(6):5567.

Chen HQ, et al. DNA methylation and hydroxymethylation associated with gene expression regulatory network during 3-methylcholanthrene induced lung cell malignant transformation. Sci Total Environ. 2021 Jun 1;771: 144839.

Rhon Calderón EA, et al. 3-Methylcholanthrene impacts on the female germ cells of rats without causing systemic toxicity. Toxicology. 2020 Jan 15;429:152328.

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