Data Sheet (Cat.No.T7465)



4-Methylbenzylidene camphor

Chemical Properties

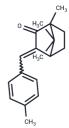
CAS No.: 36861-47-9

Formula: C18H22O

Molecular Weight: 254.37

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	4-Methylbenzylidene camphor is an ultraviolet light blocker used in cosmetics and sunscreen preparations ,specifically UV B radiation, also has estrogenic activities.		
Targets(IC50)	AChE		
In vivo	4-Methylbenzylidene camphor has estrogenic activity in fish and in mammals, binding competitively to estrogen receptors and stimulating transactivation. In addition to reducing receptor sensitivity to estradiol, 4-MBC directs dose-dependent changes in the expression of estrogen receptor subtypes, progesterone receptor, and androgen receptor[1]		

Solubility Information

Solubility	DMSO: 18.33 mg/mL (72.07 mM), Sonication is recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9313 mL	19.6564 mL	39.3128 mL
5 mM	0.7863 mL	3.9313 mL	7.8626 mL
10 mM	0.3931 mL	1.9656 mL	3.9313 mL
50 mM	0.0786 mL	0.3931 mL	0.7863 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.

Reference

Stefan D, Kirsten M, Margret S, et al. Estrogen Target Gene Regulation and Coactivator Expression in Rat Uterus after Developmental Exposure to the Ultraviolet Filter 4-Methylbenzylidene Camphor[J]. Endocrinology(5):5.

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