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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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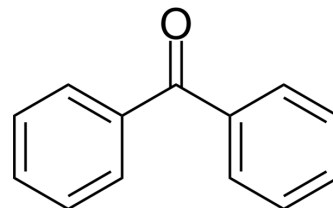
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Benzophenone

Cat. No.:	HY-Y0546		
CAS No.:	119-61-9		
Molecular Formula:	C ₁₃ H ₁₀ O		
Molecular Weight:	182.22		
Target:	Endogenous Metabolite; Photosensitizer		
Pathway:	Metabolic Enzyme/Protease; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (548.78 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.4878 mL	27.4391 mL	54.8781 mL
		5 mM		1.0976 mL	5.4878 mL	10.9756 mL
		10 mM		0.5488 mL	2.7439 mL	5.4878 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Benzophenone is an endogenous metabolite. Benzophenone is a photosensitizer, that absorbs UV light, transfers its energy to DNA, and triggers DNA damage. Benzophenone can be used as the fragrance enhancer, ultraviolet curing agent, additive in plastics, or the flavor ingredient. Benzophenone can also be used in the manufacturing of insecticides, agricultural chemicals, hypnotics, antihistamines, and other pharmaceuticals. Benzophenone exhibits certain carcinogenicity in mouse/rat models under long term exposure. Benzophenone exhibits estrogenic activity ^{[1][2]} .
In Vivo	Benzophenone (100-400 mg/kg, po for 3 days) exhibits estrogenic activity in Sprague-Dawley rats models ^[1] .

Benzophenone (0-160 mg/kg, po for 105 weeks) exhibits potential carcinogenic risks in rat and mouse models under long-term exposure, especially in the kidney and liver^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Sprague-Dawley rats models ^[1]
Dosage:	100-400 mg/kg
Administration:	po for 3 days
Result:	Increased uterine weight, endometrial height and stromal cells, keratinized the vaginal epithelial cell layer.

Animal Model:	F344/N rats and B6C3F1 mouse models ^[2]
Dosage:	15-60 mg/kg for rats, 40-160 mg/kg for mice
Administration:	po for 105 weeks
Result:	Increased the incidence of tumorigenesis.

REFERENCES

[1]. EFSA Panel on Food Contact Materials, Enzymes, Flavourings and Processing Aids (CEF); Silano V, et al., Safety of benzophenone to be used as flavouring. EFSA J. 2017 Nov 14;15(11):e05013.

[2]. Rhodes MC, et al., Carcinogenesis studies of benzophenone in rats and mice. Food Chem Toxicol. 2007 May;45(5):843-51.

Caution: Product has not been fully validated for medical applications. For research use only.

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