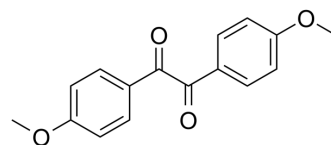


4,4'-Dimethoxybenzil

Cat. No.:	HY-103610		
CAS No.:	1226-42-2		
Molecular Formula:	C ₁₆ H ₁₄ O ₄		
Molecular Weight:	270.28		
Target:	Others		
Pathway:	Others		
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 : 50 mg/mL (184.99 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM	3.6999 mL	18.4993 mL	36.9987 mL	
		5 mM	0.7400 mL	3.6999 mL	7.3997 mL	
10 mM		0.3700 mL	1.8499 mL	3.6999 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (9.25 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	4,4'-Dimethoxybenzil is a human intestinal carboxyl esterase (hiCE) inhibitor with K _i of 70 nM.
IC ₅₀ & Target	Ki: 70 nM (hiCE) ^[1]
In Vitro	By reducing irinotecan-induced diarrhea, hiCE inhibitors (e.g., 4,4'-Dimethoxybenzil, Compound 8) can improve the anti-cancer efficacy of irinotecan. To find effective hiCE inhibitors, a new virtual screening protocol that combines pharmacophore models derived from the hiCE structure and its ligands has been proposed ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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