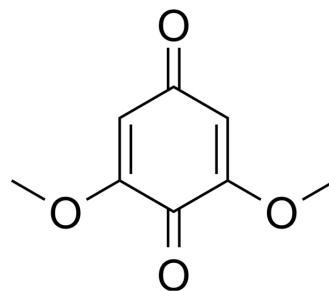


2,6-Dimethoxy-1,4-benzoquinone

Cat. No.:	HY-N1677		
CAS No.:	530-55-2		
Molecular Formula:	C ₈ H ₈ O ₄		
Molecular Weight:	168.15		
Target:	Bacterial; Parasite		
Pathway:	Anti-infection		
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 : 5.56 mg/mL (33.07 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.9471 mL	29.7354 mL	59.4707 mL
	5 mM	1.1894 mL	5.9471 mL	11.8941 mL
	10 mM	0.5947 mL	2.9735 mL	5.9471 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 0.56 mg/mL (3.33 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 0.56 mg/mL (3.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2,6-Dimethoxy-1,4-benzoquinone, a natural phytochemical, is a known haustorial inducing factor. 2,6-Dimethoxy-1,4-benzoquinone exerts anti-cancer, anti-inflammatory, anti-adipogenic, antibacterial, and antimalaria effects^[1].

IC₅₀ & Target

Plasmodium

REFERENCES

[1]. Tomonori Kamiya, et al. 2,6-Dimethoxy-1,4-benzoquinone, isolation and identification of anti-carcinogenic, anti-mutagenic and anti-inflammatory component from the juice of *Vitis coignetiae*. *Food Chem Toxicol.* 2018 Dec;122:172-180.

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

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