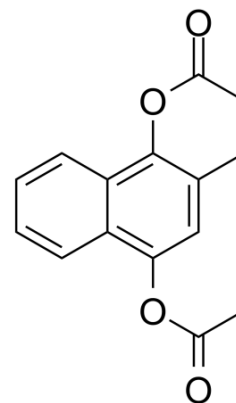


## Vitamin K4

<b>Cat. No.:</b>	HY-B1508		
<b>CAS No.:</b>	573-20-6		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>14</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	258.27		
<b>Target:</b>	Endogenous Metabolite; Apoptosis		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Apoptosis		
<b>Storage:</b>	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 (387.19 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.8719 mL	19.3596 mL	38.7192 mL
	5 mM	0.7744 mL	3.8719 mL	7.7438 mL
	10 mM	0.3872 mL	1.9360 mL	3.8719 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: ≥ 2.5 mg/mL (9.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Vitamin K4 is a chemically synthesized Vitamin K which plays an important role in the normal blood coagulation system.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### REFERENCES

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[1]. Jiang Y, et al. Vitamin K4 induces tumor cytotoxicity in human prostate carcinoma PC-3 cells via the mitochondria-related apoptotic pathway. Pharmazie. 2013 Jun;68(6):442-8.

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

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