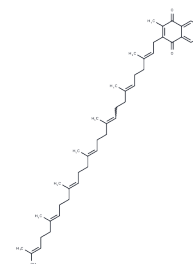


## Menaquinone-7

## Chemical Properties

CAS No. :	2124-57-4
Formula:	C <sub>46</sub> H <sub>64</sub> O <sub>2</sub>
Molecular Weight:	649
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Menaquinone-7 (Vitamin K <sub>2</sub> (35)) is a vitamin K <sub>2</sub> analog, is originally discovered as the anti-hemorrhagic factors. Menaquinone-7 (Vitamin K <sub>2</sub> (35)) is identified as the most bioactive cofactor for the carboxylation reaction of Gla-proteins.
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble, DMSO: 1 mg/ml (1.5 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5408 mL	7.7042 mL	15.4083 mL
5 mM	0.3082 mL	1.5408 mL	3.0817 mL
10 mM	0.1541 mL	0.7704 mL	1.5408 mL
50 mM	0.0308 mL	0.1541 mL	0.3082 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

- Thijssen, H H., et al., 1994. Vitamin K distribution in rat tissues: dietary phylloquinone is a source of tissue menaquinone-4. The British journal of nutrition. 72(3): 415-25.
- Conly, J M., et al., 1994. The contribution of vitamin K<sub>2</sub> (menaquinones) produced by the intestinal microflora to human nutritional requirements for vitamin K. The American journal of gastroenterology. 89(6): 915-23.
- Peeters FECM, et al. Bicuspid Aortic Valve Stenosis and the Effect of Vitamin K<sub>2</sub> on Calcification Using 18F-Sodium Fluoride Positron Emission Tomography/Magnetic Resonance: The BASIK<sub>2</sub> Rationale and Trial Design. Nutrients. 2018 Mar 21;10(4). pii: E386.

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