

Data Sheet

Product Name: Menaquinone-7
Cat. No.: CS-0046153
CAS No.: 2124-57-4
Molecular Formula: C46H64O2
Molecular Weight: 649.00
Target: Others

Pathway: Others

Solubility: H2O: < 0.1 mg/mL (insoluble); DMSO: 5 mg/mL (7.70 mM;

Need ultrasonic and warming)

BIOLOGICAL ACTIVITY:

Menaquinone-7 (Vitamin K2-7), belongs to a class of K2-vitamin homologs, is originally discovered as the anti-hemorrhagic factors^[1]. Menaquinone-7 (Vitamin K2-7) is identified as the most bioactive cofactor for the carboxylation reaction of Gla-proteins ^[2]. Supplementation with Menaquinone-7 (Vitamin K2-7) is a pharmacological option for activating matrix Gla protein and intervening in the progression of calcific aortic valve stenosis (CAVS)^[3].

References:

- [1]. 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.
- [2]. Conly, J M., et al., 1994. The contribution of vitamin K2 (menaquinones) produced by the intestinal microflora to human nutritional requirements for vitamin K. The American journal of gastroenterology. 89(6): 915-23.
- [3]. Peeters FECM, et al. Bicuspid Aortic Valve Stenosis and the Effect of Vitamin K2 on Calcification Using 18F-Sodium Fluoride Positron Emission Tomography/Magnetic Resonance: The BASIK2 Rationale and Trial Design. Nutrients. 2018 Mar 21;10(4). pii: E386.

CAIndexNames:

SMILES:

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

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