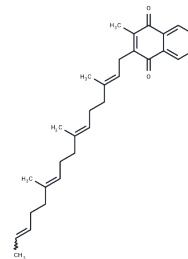


Menaquinone 9

Chemical Properties

CAS No. :	523-39-7
Formula:	C ₅₆ H ₈₀ O ₂
Molecular Weight:	785.254
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Menaquinone 9 (MK-9) is a vitamin K2 analog that has been found in various bacteria, including E. coli. MK-9 is UV-sensitive and binds to soluble nitrate reductase, a component of the bacterial electron transport chain.
Targets(IC50)	Others
In vivo	In vivo, MK-9 increases plasma prothrombin concentration in vitamin K-deficient rats.

Solubility Information

Solubility	Chloroform: 100 mg/mL (127.35 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	1.2735 mL	6.3674 mL	12.7348 mL
5 mM	0.2547 mL	1.2735 mL	2.547 mL
10 mM	0.1273 mL	0.6367 mL	1.2735 mL
50 mM	0.0255 mL	0.1273 mL	0.2547 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Craciun, A.M., Groenen-van Dooren, M.M., Thijssen, H.H., et al. Induction of prothrombin synthesis by K-vitamins compared in vitamin K-deficient and in brodifacoum-treated rats. *Biochim. Biophys. Acta.* 1380(1), 75-81 (1998).

Brito, F., DeMoss, J.A., and Dubourdieu, M. Isolation and identification of menaquinone-9 from purified nitrate reductase of *Escherichia coli*. *Journal of Bacteriology* 177(13), 3728-3735 (1995).

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