

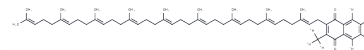
Menaquinone-9-D7

Chemical Properties

CAS No. :

Formula: C₅₆H₇₃D₇O₂

Molecular Weight: 792.2763



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-D7 is a deuterated compound of Menaquinone-9. Menaquinone-9 has a CAS number of 523-39-7. 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. In vivo, MK-9 increases plasma prothrombin concentration in vitamin K-deficient rats

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.2622 mL | 6.3109 mL | 12.6218 mL |
| 5 mM | 0.2524 mL | 1.2622 mL | 2.5244 mL |
| 10 mM | 0.1262 mL | 0.6311 mL | 1.2622 mL |
| 50 mM | 0.0252 mL | 0.1262 mL | 0.2524 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

1. T Ichihashi, et al. Colonic absorption of menaquinone-4 and menaquinone-9 in rats. J Nutr. 1992 Mar;122(3): 506-12.

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