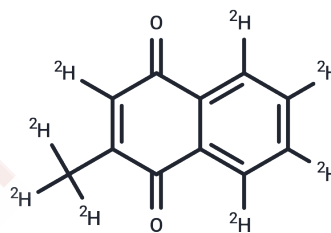


Vitamin K3-D8

Chemical Properties

CAS No. :	478171-80-1
Formula:	C11D8O2
Molecular Weight:	180.23
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	Vitamin K3-D8 is a deuterated derivative of Vitamin K3, and Vitamin K3-D8, like Menadione (Vitamin K3), is a synthetic naphthoquinone lacking the isoprenoid side chain and intrinsic biological activity; however, Vitamin K3-D8 can be enzymatically converted into active Vitamin K2 (menaquinone) following in vivo alkylation, supporting research into vitamin K metabolism, biochemical labeling studies, and isotope-tracer investigations in metabolic and nutritional sciences.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: ≥ 100 mg/mL, 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	5.5485 mL	27.7423 mL	55.4847 mL
5 mM	1.1097 mL	5.5485 mL	11.0969 mL
10 mM	0.5548 mL	2.7742 mL	5.5485 mL
50 mM	0.111 mL	0.5548 mL	1.1097 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

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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