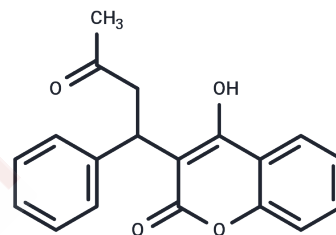


Warfarin

Chemical Properties

CAS No. :	81-81-2
Formula:	C ₁₉ H ₁₆ O ₄
Molecular Weight:	308.3279
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	Warfarin (Coumatelone) is a vitamin K antagonist, and it works by blocking the action of vitamin K, which is necessary for the synthesis of clotting factors in the liver. Warfarin blocks the action of vitamin K by inhibiting the enzyme gamma-glutamyl carboxylase, which is responsible for the carboxylation of glutamate residues in the clotting factors. This prevents the production of functional clotting factors, leading to an anticoagulant effect.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 250 mg/mL (810.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (32.43 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (32.43 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2433 mL	16.2164 mL	32.4328 mL
5 mM	0.6487 mL	3.2433 mL	6.4866 mL
10 mM	0.3243 mL	1.6216 mL	3.2433 mL
50 mM	0.0649 mL	0.3243 mL	0.6487 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

Crowl A, et al, Moon JY. Warfarin monitoring in antiphospholipid syndrome and lupus anticoagulant. *Ann Pharmacother.* 2014 Nov;48(11):1479-83.

Wang M, et al. Drug-drug interactions with warfarin: A systematic review and meta-analysis. *Br J Clin Pharmacol.* 2021 Nov;87(11):4051-4100.

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