

Clomiphene citrate

Chemical Properties

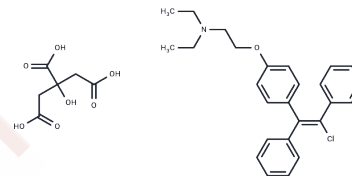
CAS No. : 50-41-9

Formula: C₃₂H₃₆ClNO₈

Molecular Weight: 598.1

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	Clomiphene citrate (NSC 35770) is a selective estrogen receptor modulator.
Targets(IC50)	Estrogen Receptor/ERR,Estrogen/progestogen Receptor
In vivo	Clomiphene?citrate?treatment significantly increases the chance of homosexuality and effeminized?behavior in male mice. [3]

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 250 mg/mL (417.99 mM),Sonication is recommended. Ethanol: 9 mg/mL (15.05 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: 2 mg/mL (3.34 mM),Sonication is recommended. <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	1.672 mL	8.3598 mL	16.7196 mL
5 mM	0.3344 mL	1.672 mL	3.3439 mL
10 mM	0.1672 mL	0.836 mL	1.672 mL
50 mM	0.0334 mL	0.1672 mL	0.3344 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

Batra S, et al. *Cancer Chemother Pharmacol*, 1990, 26(4), 310-312.

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Yan X, Luo C, Yang J, et al. Antiviral Activity of Selective Estrogen Receptor Modulators against Severe Fever with Thrombocytopenia Syndrome Virus In Vitro and In Vivo. *Viruses*. 2024, 16(8): 1332.

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