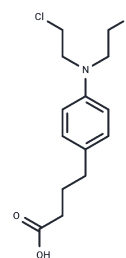


## Chlorambucil

## Chemical Properties

CAS No. :	305-03-3
Formula:	C <sub>14</sub> H <sub>19</sub> Cl <sub>2</sub> NO <sub>2</sub>
Molecular Weight:	304.21
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	Chlorambucil (CB-1348) is an orally-active antineoplastic aromatic nitrogen mustard. Chlorambucil alkylates and cross-links DNA during all phases of the cell cycle, resulting in disruption of DNA function, cell cycle arrest, and apoptosis.
Targets(IC50)	DNA Alkylation,DNA Alkylator/Crosslinker

## Solubility Information

Solubility	Ethanol: 56 mg/mL (184.08 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 262.5 mg/mL (862.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (32.87 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.85 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.2872 mL	16.436 mL	32.872 mL
5 mM	0.6574 mL	3.2872 mL	6.5744 mL
10 mM	0.3287 mL	1.6436 mL	3.2872 mL
50 mM	0.0657 mL	0.3287 mL	0.6574 mL

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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

Kashiwazaki G, et al. Bioorg Med Chem. 2010 Apr 15;18(8):2887-93.

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