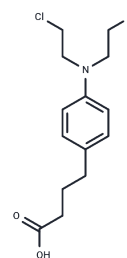


Chlorambucil

Chemical Properties

CAS No. :	305-03-3
Formula:	C ₁₄ H ₁₉ Cl ₂ NO ₂
Molecular Weight:	304.21
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 85 mg/mL (279.41 mM),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	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

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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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