

Halothane

Chemical Properties

CAS No. : 151-67-7

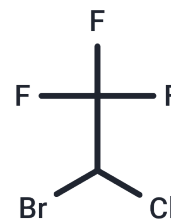
Formula: C₂HBrClF₃

Molecular Weight: 197.38

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Halothane (Anestan) is a nonflammable, halogenated, hydrocarbon anesthetic that provides relatively rapid induction with little or no excitement. Analgesia may not be adequate. NITROUS OXIDE is often given concomitantly. Because halothane may not produce sufficient muscle relaxation, supplemental neuromuscular blocking agents may be required.
Targets(IC50)	GABA Receptor, NMDAR, Chloride channel, Potassium Channel

Solubility Information

Solubility	H ₂ O: 40 mg/mL (202.65 mM), Sonication is recommended. DMSO: 160 mg/mL (810.62 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: 5 mg/mL (25.33 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	5.0664 mL	25.3318 mL	50.6637 mL
5 mM	1.0133 mL	5.0664 mL	10.1327 mL
10 mM	0.5066 mL	2.5332 mL	5.0664 mL
50 mM	0.1013 mL	0.5066 mL	1.0133 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

Namba T, et al. Eur J Pharmacol. 2000 Apr 28;395(2):95-101.

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