

Fropofol

Chemical Properties

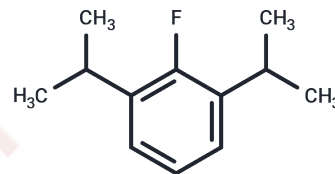
CAS No. : 87591-05-7

Formula: C₁₂H₁₇F

Molecular Weight: 180.26

Storage: Keep away from moisture, Store at low temperature
 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	Fropofol (2-fluoro-1,3-diisopropylbenzene) is a non-anesthetic small molecule that specifically reduces myocardial contractility and inhibits myofilament contraction. It can be used in research on hypertrophic cardiomyopathy and cardiovascular diseases.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 18.18 mg/mL (100.85 mM), Sonication is recommended. Ethanol: 18.18 mg/mL (100.85 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	5.5475 mL	27.7377 mL	55.4754 mL
5 mM	1.1095 mL	5.5475 mL	11.0951 mL
10 mM	0.5548 mL	2.7738 mL	5.5475 mL
50 mM	0.111 mL	0.5548 mL	1.1095 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

- Ren X, et al. Propofol decreases force development in cardiac muscle. *FASEB J.* 2018 Aug;32(8):4203-4213.
- Huang Y, et al. Propofol prevents disease progression in mice with hypertrophic cardiomyopathy. *Cardiovasc Res.* 2020 May 1;116(6):1175-1185.
- White ER, et al. Synthesis and Characterization of a Diazirine-Based Photolabel of the Nonanesthetic Propofol. *ACS Chem Neurosci.* 2021 Jan 6;12(1):176-183.
- Ren X, et al. Propofol decreases force development in cardiac muscle. *FASEB J.* 2018 Aug;32(8):4203-4213.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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