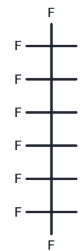


Perfluorohexane

Chemical Properties

CAS No. :	355-42-0
Formula:	C ₆ F ₁₄
Molecular Weight:	338.04
Storage:	Store at -20°C Actual storage temperature shall be subject to the COA.



Biological Description

Description	Perfluorohexane (AF-0150), a perfluorocarbon (PFC)-based microbubble formulation, is an ultrasound contrast agent with developmental toxicity that induces memory deficits and neuroprotein downregulation through the NMDA receptor-mediated PKC-ERK/AMPK signaling pathway. Perfluorohexane interferes with estrous cycle, ovulation rate in mice, Perfluorohexane interferes with estrous cycle, ovulation rate, oocyte communication and calcium homeostasis in mice.
Targets(IC50)	Others, Interleukin, ROS

Solubility Information

Solubility	DMSO: 125 mg/mL (369.78 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: 3.3 mg/mL (9.76 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (29.58 mM), Solution. <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	2.9582 mL	14.7911 mL	29.5823 mL
5 mM	0.5916 mL	2.9582 mL	5.9165 mL
10 mM	0.2958 mL	1.4791 mL	2.9582 mL
50 mM	0.0592 mL	0.2958 mL	0.5916 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

Wang X, et al. Perfluorohexane-encapsulated mesoporous silica nanocapsules as enhancement agents for highly efficient high intensity focused ultrasound (HIFU). *Adv Mater.* 2012 Feb 7;24(6):785-91.

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