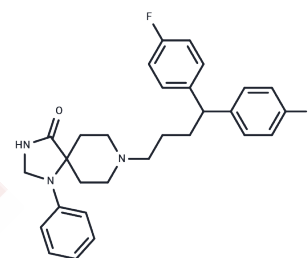


Fluspirilene

Chemical Properties

CAS No. :	1841-19-6
Formula:	C ₂₉ H ₃₁ F ₂ N ₃ O
Molecular Weight:	475.57
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	Fluspirilene (R 6218) is a non-competitive L-type calcium channel antagonist (IC ₅₀ : 0.03 μM). Fluspirilene is a long-acting antipsychotic compound used in the treatment of schizophrenia.
Targets(IC ₅₀)	Calcium Channel
In vitro	Fluspirilene (1.25, 2.5, and 5 μM) demonstrates the inhibition of proliferation of T98, U87, and all GSC lines, while Fluspirilene (2.5 and 5 μM) inhibits the proliferation of U251 and SNB19.[2] Fluspirilene decreases the viability and suppresses the sphere-forming of glioma stem cell lines in a dose-dependent manner.[2]
In vivo	Fluspirilene obviously prolongs the survival of the TGS04 mouse model. Mice treated with fluspirilene display a remarkable reduction in tumor size.[2]

Solubility Information

Solubility	DMSO: 20.71 mg/mL (43.55 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: 2 mg/mL (4.21 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	2.1027 mL	10.5137 mL	21.0274 mL
5 mM	0.4205 mL	2.1027 mL	4.2055 mL
10 mM	0.2103 mL	1.0514 mL	2.1027 mL
50 mM	0.0421 mL	0.2103 mL	0.4205 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

Kenny BA, et al. Selective antagonism of calcium channel activators by fluspirilene. Br J Pharmacol. 1990 Jun;100 (2):211-6.

Dong Y, et al. Identification of antipsychotic drug fluspirilene as a potential anti-glioma stem cell drug. Oncotarget. 2017 Dec 4;8(67):111728-111741.

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