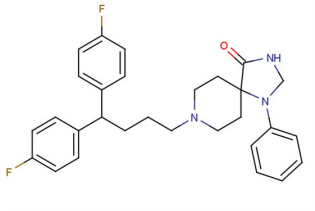
Data Sheet (Cat.No.T15301)

TargetMol
A DRUG SCREENING EXPERT

Fluspirilene

Chemical Properties



CAS No.:	1841-19-6
Formula:	C29H31F2N3O
Molecular Weight:	475.57
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Fluspirilene is a non-competitive L-type calcium channel antagonist (IC50: 0.03 μM). It is a long-acting injectable depot antipsychotic drug used for schizophrenia.
Targets(IC_{50})	L-type calcium channel: 0.03 μM
In vitro	Fluspirilene, selectively antagonizes the effects of calcium-channel activators, at concentrations that non-competitively modify dihydropyridine binding [1]. Fluspirilene reduces the viability and suppresses sphere-forming of glioma stem cell lines in a dose-dependent manner. Fluspirilene shows the inhibition of proliferation of T98, U87, and all GSC lines at 1.25, 2.5, and 5 μM. However, it inhibits the proliferation of U251 and SNB19 at 2.5 and 5 μM [2].
In vivo	Fluspirilene obviously prolongs the survival of the TGS04 mouse model. Mice treated with fluspirilene displays a remarkable reduction of the tumor size [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.103 mL	10.514 mL	21.027 mL
5 mM	0.421 mL	2.103 mL	4.205 mL
10 mM	0.21 mL	1.051 mL	2.103 mL
50 mM	0.042 mL	0.21 mL	0.421 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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