

A DRUG SCREENING EXPERT

In vivo	c-Fos expression are reduced by a behaviorally effective dose of Istradefylline, in contrast to tropicamide by which c-Fos expression in pimozide-treated rats is actually increased. [8]
Cell Research	A CHO cell line permanently expressing the human adenosine A1 or A2A receptor is cultured in α -MEM supplemented with 10% (v/v) fetal bovine serum, 50 U/mL penicillin, and 50 μ g/mL streptomycin. Cells are grown at 37°C in an environment of 5% CO ₂ . These cells are seeded on black 96-well assay plates at a density of 15,000 cells/well, and then they are cultured for 24 h.

Solubility Information

Solubility	DMSO: 13.38 mg/mL (34.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 1.34 mg/mL (3.49 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1.34 mg/mL (3.49 mM), Suspension. <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	2.6013 mL	13.0063 mL	26.0125 mL
5 mM	0.5203 mL	2.6013 mL	5.2025 mL
10 mM	0.2601 mL	1.3006 mL	2.6013 mL
50 mM	0.052 mL	0.2601 mL	0.5203 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

- Chen JF, et al. J Neurosci, 2001, 21(10), RC143.
Shiozaki S, et al. Psychopharmacology (Berl), 1999, 147(1), 90-95.
Kanda T, et al. Exp Neurol, 2000, 162(2), 321-327.
Ikeda K, et al. J Neurochem, 2002, 80(2), 262-270.
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