

A DRUG SCREENING EXPERT

Kinase Assay	general dose-response equation: $Y = \frac{(a-b)}{(1+(X/c)^d)} + b$ Where: Y=response; a=initial response; b=final response; c=EC50 concentration; d=slope value; X=drug concentration.
Cell Research	Cells are seeded in 96 wells and are treated after 24 hours with different drugs indicated in each experiment in medium containing 1% FBS or lipoprotein deficient serum. Relative proliferation is determined using Cell Proliferation Assay Kit. Cells are incubated 1.5 hrs after adding tetrazolium salt WST-1 [2-(4-iodophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfo-phenyl)-2H-tetrazolium, monosodium salt] at 5% CO ₂ , 37°C and the absorbance of the treated and untreated cells are measured using a microplate reader at 420 to 480 nm. Cells seeded in 12 well plates are counted using a hemocytometer, and dead cells are assessed using trypan blue exclusion assays.

Solubility Information

Solubility	DMSO: 71.2 mg/mL (115.12 mM), Sonication is recommended. Ethanol: 12.4 mg/mL (20.05 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 (3.23 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	1.6168 mL	8.0839 mL	16.1679 mL
5 mM	0.3234 mL	1.6168 mL	3.2336 mL
10 mM	0.1617 mL	0.8084 mL	1.6168 mL
50 mM	0.0323 mL	0.1617 mL	0.3234 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

Collins JL, et al. J Med Chem. 2002, 45(10), 1963-1966.

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Leik CE, et al. Br J Pharmacol. 2007, 151(4), 450-456.

Scholz H, et al. Diabetologia. 2009, 52(7), 1352-1362.

Guo D, et al. Cancer Discov. 2011, 1(5), 442-456.

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