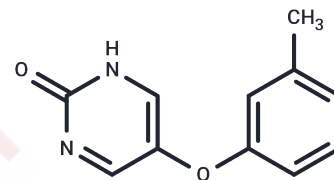


Tolimidone

Chemical Properties

CAS No. :	41964-07-2
Formula:	C ₁₁ H ₁₀ N ₂ O ₂
Molecular Weight:	202.21
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	Tolimidone (NSC 314335) is a chemical compound which inhibits acid secretion in animal models and also acts as a bronchodilator in histamine-challenged animals.
Targets(IC50)	Src
In vitro	In an in vitro broad kinase screen MLR-1023 activated the nonreceptor-linked Src-related tyrosine kinase Lyn. MLR-1023 increased the V _{max} of Lyn with an EC ₅₀ of 63 nM. This Lyn kinase activation was ATP binding site independent, indicating that MLR-1023 regulated the kinase through an allosteric mechanism[1].
In vivo	MLR-1023-mediated blood glucose lowering depends on Lyn kinase activity[1]. MLR-1023 is an insulin receptor-potentiating agent that produces a rapid-onset and durable blood glucose-lowering activity in diabetic animals[2].
Cell Research	Adipocyte differentiation is assessed in mouse 3T3-L1 cells after 8 days of incubation with MLR-1023 or rosiglitazone (10 μM).(Only for Reference)

Solubility Information

Solubility	DMSO: 125 mg/mL (618.17 mM),Sonication is recommended. Ethanol: 4 mg/mL (19.78 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: 2 mg/mL (9.89 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (49.45 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	4.9454 mL	24.7268 mL	49.4535 mL
5 mM	0.9891 mL	4.9454 mL	9.8907 mL
10 mM	0.4945 mL	2.4727 mL	4.9454 mL
50 mM	0.0989 mL	0.4945 mL	0.9891 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

Saporito MS, et al. J Pharmacol Exp Ther. 2012, 342(1):15-22.

Ochman AR, et al. J Pharmacol Exp Ther. 2012, 342(1):23-32.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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