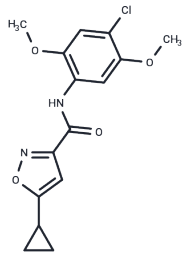
Data Sheet (Cat.No.T35544)

TargetMol

ML115

Chemical Properties



CAS No. : 912798-42-6

Formula: C15H15ClN2O4

Molecular Weight: 322.74

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	ML115 is a potent and selective activator of transcription 3 (STAT3), with abn EC50 of 2.0 nM, and is inactive against the related STAT1 and NFκB anti-targets.
Targets(IC50)	STAT

Solubility Information

Solubility	DMF: 25 mg/mL (77.46 mM),Sonication is recommended. DMSO: 22.73 mg/mL (70.43 mM),Sonication is recommended. Ethanol: 0.1 mg/mL (0.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (3.1 mM),Sonication is recommended. 10% DMSO+90% Saline: 2.27 mg/mL (7.03 mM),Suspension. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0985 mL	15.4923 mL	30.9847 mL
5 mM	0.6197 mL	3.0985 mL	6.1969 mL
10 mM	0.3098 mL	1.5492 mL	3.0985 mL
50 mM	0.062 mL	0.3098 mL	0.6197 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

Madoux F, et al. Modulators of STAT Transcription Factors for the Targeted Therapy of Cancer (STAT3 Activators). 2009 Aug 27 [updated 2010 Dec 16]. In: Probe Reports from the NIH Molecular Libraries Program [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2010-.
Li M, et al. Effect of acetate formation pathway and long chain fatty acid CoA-ligase on the free fatty acid production in E. coli expressing acy-ACP thioesterase from Ricinus communis. Metab Eng. 2012 Jul;14(4):380-7.

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