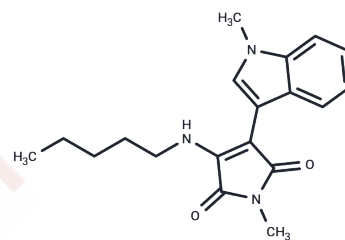


IM-54

Chemical Properties

CAS No. : 861891-50-1
 Formula: C₁₉H₂₃N₃O₂
 Molecular Weight: 325.4
 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	IM-54 is a cell-permeable, effective, and selective necrosis inhibitor.
Targets(IC50)	MLK,Necroptosis

Solubility Information

Solubility	DMSO: 55 mg/mL (169.02 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 (6.15 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	3.0731 mL	15.3657 mL	30.7314 mL
5 mM	0.6146 mL	3.0731 mL	6.1463 mL
10 mM	0.3073 mL	1.5366 mL	3.0731 mL
50 mM	0.0615 mL	0.3073 mL	0.6146 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

- Dodo K, et al. Indolylmaleimide Derivative IM-17 Shows Cardioprotective Effects in Ischemia-Reperfusion Injury. ACS Med Chem Lett. 2018 Jan 29;9(3):182-187.
- Dodo K, et al. Structure-Activity Relationship Study of 3-Amino-2-indolylactam Derivatives: Development of Inhibitors of Oxidative Stress-Induced Necrosis. Chem Pharm Bull (Tokyo). 2016;64(7):886-98.
- Zeng F, Sherry JP, Bols NC. Evaluating the toxic potential of benzothiazoles with the rainbow trout cell lines, RTgill-W1 and RTL-W1. Chemosphere. 2016 Jul;155:308-318.
- Zeng F, Sherry JP, Bols NC. Use of the rainbow trout cell lines, RTgill-W1 and RTL-W1 to evaluate the toxic potential of benzotriazoles. Ecotoxicol Environ Saf. 2016 Feb;124:315-323.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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