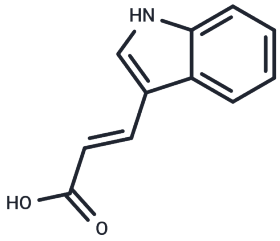
Data Sheet (Cat.No.T5262)

TargetMol

trans-3-Indoleacrylic acid

Chemical Properties



CAS No. : 29953-71-7

Formula: C11H9NO2

Molecular Weight: 187.19

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	trans-3-Indoleacrylic acid is one of the endogenous metabolites that inhibits RSL3-induced ferroptosis and can be used to study colorectal cancer.
Targets(IC50)	Ferroptosis,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 245 mg/mL (1308.83 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 (10.68 mM),Sonication is recommended. *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	5.3422 mL	26.7108 mL	53.4217 mL
5 mM	1.0684 mL	5.3422 mL	10.6843 mL
10 mM	0.5342 mL	2.6711 mL	5.3422 mL
50 mM	0.1068 mL	0.5342 mL	1.0684 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

Jin, G., Lee, S., Choi, M., Son, S., Kim, G., & Oh, J. et al. (2014). Chemical genetics-based discovery of indole derivatives as HCV NS5B polymerase inhibitors. European Journal Of Medicinal Chemistry, 75, 413-425. doi: 10.1016/j.ejmech.2014.01.062

Gao, X., Guo, M., Zhao, B., Peng, L., Su, J., & Bai, X. et al. (2013). A urinary metabonomics study on biochemical changes in yeast-induced pyrexia rats: A new approach to elucidating the biochemical basis of the febrile response. Chemico-Biological Interactions, 204(1), 39-48. doi: 10.12016/j.cbi.2013.04.2001

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481