

R(+)-IAA-94

Chemical Properties

CAS No. : 54197-31-8

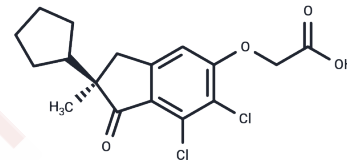
Formula: C17H18Cl2O4

Molecular Weight: 357.23

Keep away from moisture

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	R(+)-IAA-94 (R(+)-Methylindazone) is a potent indanyloxyacetic acid blocker of epithelial chloride channels. R(+)-IAA-94 inhibits Nef-sdAb19 (single-domain antibody) interaction and binds to negative factor (Nef).
Targets(IC50)	Chloride channel
In vitro	IAA-94 has been utilized for its high affinity to modulate chloride channel activity, serving as a tool to investigate the channels' dynamics and functions. This property has also facilitated the isolation and reconstitution of these proteins [1][2].

Solubility Information

Solubility	DMSO: 90 mg/mL (251.94 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: 3.3 mg/mL (9.24 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	2.7993 mL	13.9966 mL	27.9932 mL
5 mM	0.5599 mL	2.7993 mL	5.5986 mL
10 mM	0.2799 mL	1.3997 mL	2.7993 mL
50 mM	0.056 mL	0.2799 mL	0.5599 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

Landry DW, et al. Epithelial chloride channel. Development of inhibitory ligands. *J Gen Physiol.* 1987 Dec;90(6):779-98.

Landry DW, et al. Purification and reconstitution of chloride channels from kidney and trachea. *Science.* 1989 Jun 23;244(4911):1469-72.

Xiaoqin Fan, et al. A homogeneous time-resolved fluorescence-based high-throughput screening for discovery of inhibitors of Nef-sdAb19 interaction. *Int J Oncol.* 2015 Oct;47(4):1485-93.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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