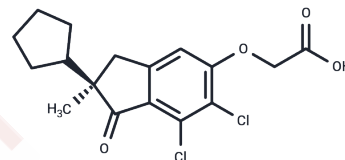


R(+)-IAA-94

Chemical Properties

CAS No. :	54197-31-8
Formula:	C ₁₇ H ₁₈ Cl ₂ O ₄
Molecular Weight:	357.23
Appearance:	no data available
Storage:	keep away from moisture
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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)
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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.

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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