

## (Rac)-Idroxiioleic acid sodium

## Chemical Properties

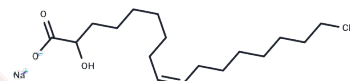
CAS No. : 1229114-68-4

Formula: C<sub>18</sub>H<sub>33</sub>NaO<sub>3</sub>

Molecular Weight: 320.44

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	(Rac)-Idroxiioleic acid (2-Hydroxyoleic acid) sodium is a synthetic derivative of oleic acid (OA) that binds to the plasma membrane, altering lipid composition. This compound exhibits antitumor properties.
Targets(IC50)	Apoptosis, Androgen Receptor
In vitro	(Rac)-Idroxiioleic acid sodium at concentrations of 25-75 $\mu$ M over a duration of 72 hours inhibits the growth of Jurkat cells in a time- and concentration-dependent manner, with an IC <sub>50</sub> value of approximately 40 $\mu$ M. Additionally, at concentrations ranging from 25-50 $\mu$ M, this compound significantly enhances the proteolytic cleavage of PARP, a marker of apoptosis, also in a concentration-dependent fashion.
In vivo	The chemical compound '(Rac)-Idroxiioleic acid sodium' significantly and markedly inhibits the growth of mouse tumors that infect Jurkat cells.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1207 mL	15.6035 mL	31.2071 mL
5 mM	0.6241 mL	3.1207 mL	6.2414 mL
10 mM	0.3121 mL	1.5604 mL	3.1207 mL
50 mM	0.0624 mL	0.3121 mL	0.6241 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.

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