

## (R)-Leucic acid

## Chemical Properties

CAS No. :	20312-37-2
Formula:	C <sub>6</sub> H <sub>12</sub> O <sub>3</sub>
Molecular Weight:	132.158
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)-Leucic acid (D-HICA) is a leucine metabolite and an orally active D-isomer of the alpha-hydroxy leucine analogue. It promotes intestinal fatty acid absorption by upregulating CD36, used for lipid metabolism studies.
Targets(IC50)	Integrin
In vitro	(R)-Leucic acid (0.125–2 mM) induces a dose-dependent increase in triglyceride (TG) content in IPEC-J2 cells by activating the CD36 signaling pathway [1].
In vivo	In rats, dietary (R)-Leucic acid (0.1%-0.3%) shows a growth-promoting efficiency of only 41% compared to its L-isomer, with slower weight gain [2].

## Solubility Information

Solubility	H <sub>2</sub> O: 80.00 mg/mL (605.34 mM), Sonication is recommended. DMSO: 80.00 mg/mL (605.34 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	7.5666 mL	37.8329 mL	75.6659 mL
5 mM	1.5133 mL	7.5666 mL	15.1332 mL
10 mM	0.7567 mL	3.7833 mL	7.5666 mL
50 mM	0.1513 mL	0.7567 mL	1.5133 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

Andrew Ryan CONERY, et al. EXPRESSION LEVELS OF BCL-xL, BCL2, BCL-w, AND BAD AND CANCER THERAPIES. WO2015153871A2. 2015-10-08.

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